

## STIC Search Report Biotech-Chem Library

## STIC Database Tracking Number 1 14403

TO: Minh-Tam Davis

Location: REM-3A24/3C18

Art Unit: 1642

Monday, February 23, 2004

Case Serial Number: 10085108

From: Toby Port

Location: Biotech-Chem Library

Remsen 1A59

Phone: 571-272-2523

toby.port@uspto.gov

## Search Notes

Dear Examiner Davis,

Here are the results of your search.

Please feel free to contact me if you have any questions.

**Toby Port** 



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February 19, 2004, 17:27:16; Search time 4182 Seconds (without alignments) 10183.386 Million cell updates/sec
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1 ATGCCTCTTTCCAAACCT......CTATCCAGTATCATCTAG 1041
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                      2888711 seqs, 20454813386 residues
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Ω :	core	Query Match	<b>—</b>	DB	ID Do	escription
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11	486			1983			FISIS/8 Homo sapi F196482 Homo sapi
12			46.7	2887			F196483 Homo sapi
13			46.7	2887			F239802 Homo sapi
14			46.7	2940			R243322 Sequence
15		4.	46.7	2940			D106884 Isolated
17		# CC	46.7	1959			File195 Homo sapi
18				2025			Filatst Homo Sapi C013318 Homo sani
19		4	•	4031			R243307 Sequence
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DEFINITION		Human	<.		44 (	124497 DP DNA linear om clone RP6-232G24 on chrom	chromosome Xq27.1-27.3
		MAGECS		the	GEC	antigen gene i anoma antigen,	amıly famil
ACCESSI		COMP AL02	complete sa	equence			
VERSION KEYWORDS		AL02; HTG;	2152.1 MAGEC1	σ.,	500	98	
SOURCE	SM	Ношо	sapi	ns (human)	an)		
		Euka	yota	, Metazoa;	Ø 1	.0)	Ξ.
REFERENCE		1 (	bases	1 to 12	449	riimareb; cacarrnin; hominidae 7)	ае; ното.

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                                                                    Submitted (10-Mark 2002) Wellcome first samper liberture, ninkton, cambridgeshire, CBN 15A, WK E-maile enquiries:

humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk

On May 22, 1998 this sequence version replaced $1:296993.

During sequence assembly date is compared from overlapping clones.

Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (1.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one planmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following absreviations are used to associate primary accession numbers given in the feature table with their source databases: Em., EMBL; Sw., SWISSRRT; Tr., TREMBL; Wp., WORMERP, Information mit to WORMERP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   http://www.sanger.ac.uk/Projects/C elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the Sanger Centre Chromosome X Mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Group. Further information can be found at http://www.sanger.ac.uk/HGP/ChrX http://www.sanger.ac.uk/HGP/ChrX PF6-232624 is from the library MPGI-6 constructed by the group of Pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm
                         Direct Submission
Submitted (08-MAR-2002) Wellcome Trust Sanger Institute, Hinxton,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence is the entire insert of clone RP6-232G24 The true
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note="LIME1 repeat: matches 5914. .6136 of consensus"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    right end of clone RP3-326L12 is at 82755 in this sequence.
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gene="dA232G24.1"
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note="179 copies 2 mer gg 57% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           63. .794
note="16 copies 2 mer tg 93% conserved"
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note="14 copies 28 mer 57% conserved"
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note="5 copies 39 mer 65% conserved"
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/db_xref="taxon:9606"
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/clone="RP6-232G24"
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/gene="dA232G24.1"
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'note="L2 re
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AUTHORS
                                                          JOURNAL
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join(11002. .11086,11825. .11922,12078. .12184,12517. .16491)
gene="MAGEC1"
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SSTLVSLFQSSPERTGSTFEGFPQSPLQTPVSSSSSSTLLSLFQSSPERTHSTFEGFP
OSLLQTPMTSSFSSTLLSTFQSSPESAQSTFEGFPQSPLQTPGSPSFSSSTLLSLFQSS
PERTHSTFEGFPQSPLQTPMTSSFSSTLLSTLQSSPBSAQSAFEGFPQSPLQTPVSSS
RSYTLLSLFQSSPBETHSTFEGFPQSPLQTPVSSSSSSSTLLSLFQSSPBCTQSTFEG
FPQSPLQTPQSPQGEDSLSPHYFPQSPQGEDSLSPHYFPQSPPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSSPQGEDSLSPHYFPQSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="(possible pseudogene)
match: proteins: Sw:P43363 Tr:Q9BZ80 Tr:O60781 Tr:AAH04105
Tr:O95529 Tr:Q9R2A2 Sw:O15479 Tr:O89006 Tr:Q9BUN9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / Trains lation="MELFPNLPRLSFEEDFQNPSVTEDLVDAQDSIDEEEEDASSTSS SSFHFLFPSSSSLSSSPLSSPLSFLIGGVFDEDARAGMPFLPQSPPEIPPQGPP KIT SIPOQPPPQSPPQSPLDSSSLLSSSPLSFLIGGVFDEDARAGMPFLPQSPPEIPPQGPP KVABLVQFLLLKVQTKEPVTKABMLTTVIKKKNDYPPMIFGKAHEFIBLIFGTALTDM DPDNHSYFFEDTLDLTYPTKSKUNFCLLILLISMIFGKAHEFIBLIFGTALTDM DPDNHSYFFEDTLDLTYPTGSSLLLILLISMIFKGAHEFIBLIFGTALTDM
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/db_xref="GI:20095260"
/translation="MGDKDMPTAGMPSLLQSSSESPQSCPEGEDSQSPLQIPQSSPES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DDTLYPLQSPQSRSEGEDSSDPLQRPPEGKDSQSPLQIPQSSPEGDDTQSPLQNSQSS
PEGKDSLSPLEISQSPPEGEDVQSPLQNPASSFFSSALLSIFQSSPESTQSPFEGFPQ
SVLQIPVSAASSTLVSIFQSSPESTQSPFEGFPQSPLQIPVSRSFSSTLLSIFQSSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IGVCAGREHFIYGDPRKLLTIHWVQRKYLEYREVPNSAPPRYEFLWGPRAHSEASKRS
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Tr:Q96D45 Tr:Q99NC2 Tr:Q99PH7 Sw:Q9Y5V3"
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/product="dA232G24.2 (Melanoma antigen gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /evidence=not_experimental
/product="dA232624.1 (Melanoma antigen gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9138. .9250
/note="MLT1B repeat: matches 1. .130 of consensus"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .261 of consensus"
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Em:BG480822"
                                                                                                                                                                                                                                                           2827. ,2872 _ _ /note="23 copies 2 mer gg 78% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3876. .3959
/note="7 copies 12 mer 72% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4027. .4110 //note="7 copies 12 mer 88% conserved"
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/note="match: GSS: Em.AQ064665"
join(12181, .12184,12517, .15941)
/gene="MAGEC1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'note="match: cDNAs: Em:AF056334
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/note="match: GSS: Em:AQ060261"
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protein, MAGEC3)"
/note="(possible pseudogene)
match: cDNAs: Em:AF151378
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                                                                                                                                                        ESTs: Em:BI460078"
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/protein id="CAA18146.1"
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/gene="dA232G24.1"
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Direct Submission
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SYVPVNTLDITSBGCLSDBQGMSQNRLLILILSIIFIKGTYASEEVIMDVLSGIGVRA
GREHFAFGEPRELLTKVWVQEHYLEYREVPNSSPPRYEFLWGPRAHSEVIKKKVVFFL
                 PEGEDSLSPLQI PQSPLEGEDSLSSLHFPQSPPEWEDSLSPLHFPQFPPGEDFQSSL
QSPVSICSSSTSLSLPQSFPESPQSPPEGPAQSPLQRPVSSFFSYTLASLLQSSHESP
                                                     QSPPEGPAQSPLSESSSPVSSFPSSTSSSLSQSPVSSFPSSTSSSLSKSSPESPLQSPVI
SFSSSTSLSPFSEESSSPVDEYTSSSDTLLESDSLTDSESLIESEPLFTYTLDEKVDE
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LQSPVSICSSSTPSSLPQSFPESSQSPPEGPVQSPLHSPQSPPEGMHSQSPLQSPESA
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19287. .19670
                                                                                                                                                                                                      12420. .12497
/note="13 copies 6 mer tcctcc 67% conserved"
12675. .12752
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                                                                                                                                                                                                                                                                                                                                      'note="10 copies 105 mer 94% conserved"
|3844. .14719
                                                                                                                                                                                                                                                                                                                                                                                                                                                /note="19 copies 12 mer 58% conserved"
14217. 14306
/note="2 copies 45 mer 100% conserved"
1455. 14742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note="24 copies 12 mer 56% conserved"
4480. .14719
note="5 copies 48 mer 89% conserved"
                                                                                                                                                                                                                                                                                                                                                                           note="2 copies 438 mer 82% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14683. .14997
/note="3 copies 105 mer 86% conserved"
                                                                                                                                                                                                                                                                                                                                                                                             14023. .14262
/note="5 copies 48 mer 84% conserved"
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'note="2 copies 51 mer 99% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15169. .15222
/note="3 copies 18 mer 88% conserved"
                                                                                                                                                                 12417. 12500
/note="7 copies 12 mer 70% conserved"
                                                                                                                                                                                                                                                               note="2 copies 39 mer 89% conserved"
                                                                                                                                                                                                                                                                                                /note="4 copies 48 mer 88% conserved"
12928. .13977
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Best Local Similarity 100.
Matches 1041; Conservative
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1181 ACAGCTACTTGGCATGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAA 4240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4721 TIGIGGGGTCCAAGAGCCCATTCAGAGGCCCAGCAAGAGAAGTCTTAGAGTTTTTTATCCAA 4780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRI 22-NOV-2001
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Human DNA sequence from clone RP1-142F18 on chromosome Xq26.3-27.2,
                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                  540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (22-NOV-2001) Wellcome Trust Sanger Institute, Hinxton, Cambridgeenire, CB10 1SA, UK. B-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Dec 31, 1998 this sequence version replaced gi:3646045.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                   4481 GATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4601 GCTGGGAGGGAGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4661 CAGAGAAAGTACCTGGAGTACCGGGGGGGGGGCCCCAACAGTGCTCCTCCACGTTATGAATTT
                                                                                                                                                                                                                                                        541 AAGGCAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4541 AAGGGCAGCTGTGTCCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGGTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      901 CAGAGAAAGTACCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACGTTATGAATTT
                                                                                                      GACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   781 AAGGGCAGCTGTGTCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCATTAGGGGTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTGGGAGGAGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTG
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VECTOR: pCYPAC2
IMPROVERANT: This sequence is not the entire insert of clone
REP1-142F18 It may be shorter because we sequence overlapping
sections only once, except for a short overlap.
The true right end of clone RP1-142F18 is at 141672 in this sequence. The true left end of clone G81-54M10 is at 139131 in this sequence. The true right end of clone RP3-406C18 is at 139131 in this
chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was contirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL; Sw:, GANSSPROT; Tr:, TREMBL; We:, WORMPEP; Information on the WORWPEP database can be found at
                                                                                                                                                                                                                                                          http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the Sanger Centre Chromosome X Mapping Group. Further information can be found at
                                                                                                                                                                                                                                                                                                                                                                  http://www.sanger.ac.uk/HGP/ChrX
http://www.sanger.ac.uk/HGP/ChrX
RP1-142F18 is from the library RPCI-1 constructed by the group of
Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
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/note="L1MA4A repeat: matches 5663. .6179 of consensus"
28637. .29340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1443. .21641
'note="LIMA3 repeat: matches 6111. .6304 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26327. .26581
/note="L1PB3 repeat: matches 5894. .6150 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note="L1M3 repeat: matches 4824. .5538 of consensus" 9537. .29572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note="LTR1 repeat: matches 1. .785 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17074. .17317
/note="122 copies 2 mer cc 55% conserved"
complement(19214. .19587)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4958. .5026
/note≃"23 copies 3 mer gag 75% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6704. .6727 ____/note="12 copies 2 mer ca 100% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note="41 copies 2 mer at 67% conserved" 30200. .30271
/note="6 copies 12 mer 77% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9429. .8500
'note="36 copies 2 mer at 68% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note="3 copies 12 mer 100% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3433. .8504 **
'note="6 copies 12 mer 72% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             956. .5027
note="6 copies 12 mer 75% conserved"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note="match: GSS: Em:AQ596941"
9991. .20802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  complement (3934. .4358)
note="match: GSS: Em:AQ729073"
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/note="match: GSS: Em:AQ017378"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mcl_type="genomic DNA"
/db_xref="RZPD:RPCIP704F18142"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            complement (7824. .7943)
hote="match: STS: Em:L24631"
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/clone="RP1-142F18"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       clone_lib="RPCI-1"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chromosome="X"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .13401
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/note="THEIB-INTERNAL repeat: matches 1. .166 of consensus"
46102. ,46169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .1049 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           74381. .74784
/note="TIGGER1 repeat: matches 2014. .2418 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11901. .42278 "note="HERVH repeat: matches 7324. .7713 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'note="L1MB1 repeat: matches 5828. .6162 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note="HERVH repeat: matches 3994. .5149 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="HERVH repeat: matches 460. .2987 of consensus"
39604. .40459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       70618. 70803
/note="LTR2 repeat: matches 151. .338 of consensus"
72998. 73111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note="LTR2 repeat: matches 112. .449 of consensus"
5283. .83129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note="LTR7 repeat: matches 1. .450 of consensus"
45952. .46111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'note="THE1B-INTERNAL repeat: matches 97. .170 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47730. ,48123
/note="MSTC repeat: matches 1. ,364 of consensus"
58971. ,61286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46147. .47366
/note="THE1B-INTERNAL repeat: matches 310. .1574
                                                                                                                                                                                                                                                                                                                                                                                                                                 .33 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                matches 3140. .3993 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="57 copies 2 mer at 78% conserved"
73019. .73114
               Anote="42 copies 2 mer ta 77% conserved"
33076. .33147
/note="6 copies 12 mer 79% conserved"
                                                                                                                                         /note="51 copies 2 mer at 73% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'note="LIPA15-16 repeat: matches -707.
70284. .70609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="8 copies 12 mer 80% conserved"
73925. .74189
                                                                                              /note="9 copies 12 mer 75% conserved"
33560. 33661
                                                                                                                                                      Complement (35997 . 38405)
/note="match: GSS: Em:AQ354465"
complement (35998 . 38419)
/note="match: GSS: Em:AQ120433"
complement (35998 . 36405)
/note="match: GSS: Em:AQ353948"
complement (3699 . 36409)
/note="match: GSS: Em:AQ486967"
complement (36284 . 36418)
/note="match: GSS: Em:AQ486967"
complement (36284 . 36418)
/note="match: GSS: Em:AQ486967"
/note="match: GSS: Em:AQ486967"
/note="match: GSS: Em:AQ486967"
/note="match: GSS: Em:AQ486967"
/note="match: GSS: Em:AQ431535"
/note="match: GSS: Em:AQ431535"
/note="match: GSS: Em:AQ431535"
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4919. .75076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="match: GSS: Em:AQ263270"
37111, .37195
                                                                                                                                                                                                                                                                                                                                                                                                                              note="LTR7 repeat: matches 1.
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37195. .39609
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                                                                                                                                                                                    /note="14 copies 2 mer tt 100% conserved"
95228. .96236
/note="LiPA3 repeat: matches 5138. .6146 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTCTCTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCAGAACCCCGAGTGTG
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/note="match: GSS: Em:AQ667065"
83298. .83633
/note="LTR2 repeat: matches 112. .449 of consensus"
83634. .85637
/note="TIGGERI repeat: matches 1. .1994 of consensus"
89169. .89216
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Pred. No. 4.5e-173;
0; Mismatches 152; Indels
                                                                                                 89169. .89216
/note="24 copies 2 mer gt 93% conserved"
complement(8944. .89909)
/note="match: GSS: Em:B35662"
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103090. .103133
/note="22 copies 2 mer gg 75% conserved"
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/note="20 copies 2 mer tg 87% conserved"
                                                                                                                                                                                                                                                                                                                  99611. .99642
/note="16 copies 2 mer tc 96% conserved"
                                                                                                                                                                                                                              96760. .96951
/note="16 copies 12 mer 80% conserved"
99609. .99644
                                                                                                                                                                                                                                                                                                 'note="3 copies 12 mer 94% conserved"
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/note="match: GSS: Em:B70993"
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KATDKDYSAFHLGHLREVRLFLRGGTSDQRMDSLVLCPTYFKLWRTLSGSPGLQLSDL
HFGSQPEGKFSLRRAVSVKQREEPQDWPLNEKRTLWKDSDLPTWRRGTGYTLSLPAVS
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TGYFPMI FRKAREFIEILFGI SLTEVDPDHFYVFVNTLDLTCEGSLSDEQGMPQNRLL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           958 TTTTTGTGGGGGTCCAAGAGCCCATTCAGAGGCCAAGA--GAAGTCTTAGAGTTTTTA 1015
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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Submitted (06-MAR-2002) Department of Immunology, T Cell Research
Lab., Xueuan Road 38, Beijing 100083, China
Location/Qualifiers
                                                              4593 Trcaddaaagcrcardagrrcargdaacraargrrrggcarrgcccrdacrdagarggac
                                                                                                                                                                                                     1533 ACCAACAACAACTCCTATGTCTTTGAAAACACAGTAGAACTCTGCGACCAAGGGAGGCTG
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658 CCCGACAACCACTCCTATTTCTTTGAAGACATTAGACCTCACCTATGAGGGAAGCCTG
                                                                                                                                                                                                                                                                       718 ATTGATGACCAGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTC
                                                                                                                                                                                                                                                                                                                                                4473 AGTGATGGCCAGGGAATGTCCAAGAACCACCTCCTAATTCTTATTCTGAGTGTGGTCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                     778 ATAAAGGGCAGCTGTGTCCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTG
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2 (bases 1 to 1932)
Dong, X. and Chen, W.
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LRSAEGSVLDLANPQGLAGHRQEDGRRGLTEASPQQKKGGEDEDMPAAGMPPLPQSPP
EI PPQGPPKI SPQGPPQSPPQSPLDSCSSPLLMTRLDEESSSEEEDTATWHALPESES
                                                                     LPRYALDEKVAELVQFLLLKYQTKEPVTKAEMLTTVIKKYKDYFPMIFGKAHEFIELI
FGIALTDMDPDNHSYFFEDTLDLTYEGSLIDDQGMPKNCLLILILSMIFIKGSCVPEE
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                                                                                                                       VIWEVLSAIGPIQRPAREVLEFLSKLSSIIPSAFPSWYMDALKDMEDRAQAIIDTTDD
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ILILSVIFIKGNCASEEVIWEVLNAIGPWSALAGFADVLSRLALWESEGPEAFCEESG
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Direct Submission
Submitted (22-NOV-2001) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 15A, UK. E-mail enquiries:

Cambridgeshire, CB10 15A, UK. E-mail enquiries:

humquery@sanger ac.uk Clone requests: clonerequest@sanger.ac.uk
On Nov 25, 2001 this sequence version replaced gi:3334694.

During sequence assembly data is compared as variations
where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were ocvered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em; EMBL; Sw;
SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information on the WORMPEP
thtp://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome X, constructed by the Sanger Centre Chromosome X Mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm
VECTOR: pCYPAC2
IMPORTANT: This sequence is not the entire insert of clone
RP3-326112 It may be shorter because we sequence overlapping sections only once, except for a short overlap.
The true left end of clone RP3-326112 is at 1 in this sequence. The true left end of clone RP3-32624 is at 37658 in this sequence.
Location/Qualifiers
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/note="L1MA4A repeat: matches 4434. .6299 of consensus"
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'note="L1PB3 repeat: matches 5824. .5868 of consensus"
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RP3-326112 is from the library RPCI-3 constructed by the group
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12382. .12605
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/note="LTR25-internal repeat: matches 3741. .5507
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3541. _3568
/note="14 copies 2 mer gt 89% conserved"
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16942. .17277
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16846. .17124
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/db_xref="RZPD:RPCIP704L12326"
/db_xref="taxon:9606"
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/note="match: GSS: Em:AQ091802"

HS326L12 37757 bp DNA linear PRI 22-NOV-2001 Human DNA sequence from clone RP3-326L12 on chromosome Xq27.1-27.3,

AL023279.2 GI:17065907

complete sequence

DEFINITION

AL023279

ACCESSION

VERSION KEYWORDS

Homo sapiens (human)

Homo sapiens

ORGANISM

AUTHORS

REFERENCE

Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo. 11 (Dases 1 to 37757) Heath,P.

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                                                                                                                                                        note="HERVL repeat: matches 726. .1133 of consensus" 0454. .34882 note="HERVL repeat: matches 1133. .5557 of consensus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ATGCCTCTTTTCCAAACCTTCCAGGCTCAGCTTTGAGGAAGACTTCCAGAACCCCGAGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches 260; Indels 16; Gaps
                                                                                                                                                                                                             4888. .34960
hote="MLT2A repeat: matches 381. .453 of consensus"
/note="LTR196 repeat: matches 1. .580 of consensus" 24.778. .24397
/note="110 copies 2 mer gg 55% conserved" 28844. .29294
/note="MITSA repeat: matches 1. .453 of consensus" 29295. .29743
/note="HERVL repeat: matches 1. .452 of consensus"
                                                                                                       note="HERVL repeat: matches 1. .452 of consensus"
2742. ...30149
                                                                                                                                                                                                                                                                                                                                                                                                                 53.2%; Score 554; DB 9; Length 37757; 73.5%; Pred. No. 1e-152;
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Matches 766; Conservative
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26448 GATGAGCAGGCATGCCCCAGAACCGCCTCCTGATTCTTATTCTGAGTGTGATCTTCATA 26507
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This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         numbers given in the feature table with their source databases:
Em:, EMBL; Sw., SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information
on the WORWPEP database can be found at
http://www.sanger.ac.uk/Projects/C =legans/wormpep This sequence
was generated from part of bacterial alone contigs of human
chromosome X, constructed by the Sanger Centre Chromosome X Mapping
                                                                                                                                                                                                                                                                840
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Human DNA sequence from clone RP3-406C18 on chromosome Xq27.1-27.3,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Submitted (05-MAR-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Aug 21, 1998_this sequence version replaced gi:3288039.
                                                                                                                                                                                                                                                                                                                           841 GCTGGGAGGAGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTG
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                                                                                      721 GATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo
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Contact: humquery@sanger.ac.uk
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98914 IGCAGGAACATTACCTGGAGTATTGGGAGGTGCCCAACAGTTCTCCTCCACGTTATGAAT 98855
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                 99093 -TGATGACACGGGCCAGGCCTGAGAACTGCCTCCTGATTCTTATTCTGAGTGTGATCTTCA 99035
                                                                                                                                                                                 98974 AFGCFGGGAGGAGCACFFCGFCTATGGGGAGCCCAGGGAGCTCCFCACTAAAGTFFGGG 98915
                                                                                                                                                                                                                                                                                                              959 TTTTGTGGGGTCCAAGAGCCCATTCAGAGGCCAGCAAG--AGAAGTCTTAGAGTTTTTAT 1016
                                                                                                                                                                                                                           899 TGCAGAGAAAGTACCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACGTTATGAAT 958
                                                                                                  9934 TAACGGGCAGCTGTGCCCCTGAGGAGGTCATCTGGGAAGTGCTGAAGGCAATAGGGGTGT
                                                                                                                                            839 GTGCTGGGGAGGGAGCACTTTATATATGGGGGATCCCAGAAAGCTGCTCACTATACATTGGG
                                                           779 TAAAGGGCAGCTGTGTCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCATAGGGGTGT
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<1. .>533
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/map="Xq27.1-q27.3"
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TITLE
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TITLE
JOURNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99205 TCGAGAAAGCCTGTGAGTTCATAGAGCTTCTTTTTGGCCTTTCCCTGATAGAAGTGGGCC 99146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99145 CTG---ACCATTTCTATGTGTTTGCAACACAGTAGACCTCGCCGATGAGGGTAG---- 99094
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99265 CAGAGTCAGAGATGCTGACGATTGTCATCACCAAGTACAAAGACTACTTTCCTGTGATAC 99206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 ATGCCTGCTGCTGGBATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCCAGGGT 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAAAGGCAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCT 598
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Group. Further information can be found at http://www.sanger.ac.uk/HGP/ChrX
RP3-406C18 is from the library RPCI-3 constructed by the group of pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm
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                                                                                                                                                                               /organism="Homo sapiens"
/mol_type="genomic_DNA"
/db_xref="RZPD:RPCIP704C18406"
/db_xref="taxon:9606"
/chromosome="X"
                                                                                                                                                                                                                                                                                        /map="q27.1-27.3"
/clone="RP3-406C18"
/clone_lib="RPC1-3"
_22206_ c _22413 g 36001 t
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Homo sapiens MAGE family testis and tumor-specific protein (MAGEC3) AF333706
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GPPQSPPQSPLDSCSSPLIMTRLDBESSSEEEDTATWHALPESESLFRYALDEKVAEL
VQPLLLKYQTKEPVTKAEMLTTVIKKYKDYFPMIFGKAHEFIELIFGIALTDMDPDNH
SYFFEDTLDLTVEGESL"
137 t
151 c 119 g 137 t
                                                                                                                                                                                                                                                                             Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 533)
Lucas, D. Plaen, E. and Boon, T.
MAGE-BS; MAGE-C2, and MAGE-C3: four new members of the MAGE family with tumor-specific expression
Int. J. Cancer 87 (1), 55-60 (2000)
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/product="MAGE family testis and tumor-specific protein"
/protein_id="AAK00158.1"
/db_xref="GI:126428833"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lucas, S., De Plaen, E. and Boon, T.
Direct Submission
Submitted (05-JAN-2001) Ludwig Institute for Cancer Research,
Catholic University of Louvain, Avenue Hippocrate, 74, Brussels
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PVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVFANTVGLTDEG
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VWVQGHYLEYREVPHSSPPYYEFLMGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clone distribution: MGC clone distribution information can be found through the I.M.A.G.B. Consortium/LiML at: http://image.llnl.gov Series: IRAL Plate: 3 Row: f Column: 20
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 7706604.
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                                                                                                                                                                                             Submitted (02-APR-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'product="melanoma antigen, family E, 1, cancer/testis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      http://www.systemsbiology.org
contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anurac
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology
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/clone lib="NIH MGC 20"
/lab host="DH10B-R"
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                                                                                                                                                                                                                                                                                                                                                                 NIH-MGC Project URL: http://mgc.nci.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46.7%; Score 486.4; DB 9; 73.0%; Pred. No. 8.1e-133;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches 211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'clone="MGC:871 IMAGE:3050294"
                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="synonyms: MAGEC2,
/db_xref="LocusID:51438"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         db_xref="LocusID:51438"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'protein_id="AAH05891.1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       db_xref="GI:13543466"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="Vector: porB7"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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                                                                           (bases 1 to 1734)
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                                                                                                                          Strausberg, R.
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Best Local Similar
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Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.L., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Morkernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.N.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Sanchez, J., Helton, E., Ketteman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Rodrigues, S.,
Boutfard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
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Homo sapiens melanoma antigen, family E, 1, cancer/testis specific,
mRNA (cDNA clone MGC:871 IMAGE:3050294), complete cds.
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Gaps
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    0; Indels
    Mismatches
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    Conservative
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1104 TATGCTGGGAGGAGCACTTCGTCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGG 1163
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Pred. No. 8.2e-133;
0; Mismatches 211;
                             precursors MAGE-C1 and MAGE-C2 and us
Patent: US 6475783-A 18 05-NOV-2002;
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    Isolated nucleic acid molecule
                                                                      Location/Qualifiers
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428 c 512 q
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Best Local Similarity 73.0%;
Matches 764; Conservative (
                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                        497 a
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OY 898 GIGCAGAGAAAGTACCIGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACGTTATGAA 957	OY 958 ITITIGIGGGGTCCAAGAGCCCAITCAGAGGCCAGCAAGAGAAGTCTTAGAGTTTTTA 1015  1224 ITCTGTGGGGTCCAAGAGCCCATTCAGAAAGATCAAGAAGTACTAGAGTTTTTA 1283	Oy 1016 TCCAAGCTATCATCATCATG 1041  Db 1284 GCCAAGCTGAACACTGTTCCTAG 1309	;	BD106883 N Isolated nuc precursors N BD106883	VERSION BUILD8881. GI:22201/01 KEYWORDS JP 2002503096-A/16. SOURCE synthetic construct ORGANISM synthetic construct	REFERENCE 1 (Dases 1 to 1983) AUTHORS Lucas, S., Smet, C.D. and Falleur, T.B. TITLE Isolated nucleic acid molecule coding for tumor rejection antigen	JOURNAL PATENT: JP 2002503096-A 16 29-JAN-2002; LUDWIG INSTITUTE FOR CANCER RESEARCH  COMMENT PN JP 2002503096-A/16	PF 24-APR-1998 JP 1998547266 PR 25-APR-1997 US 08/845528 PR 25-APR-1997 US 08/845528 PI SOPHIE LUCAS, CHARLES DE SMET, THIERRY BOON FALLEUR PC COUTHIN / 04 A61K78 / 10 A61K78	ONTAINO, TOTAL OF THE TOTAL OF	Key Location/Qualifier Location/Qualifiers	/ / Organism=""MyThthetic construct" / // // // // // // // // // // // // /	Query Match Query Match Best Local Similarity 73.0%; Pred. No. 8.2e-133; Matches 764; Conservative 0; Mismatches 211; Indels 71; Gaps 8;	OY 1 ATGCCTCTTTCCAAACCTTCCAGGCCTCAGGTTTGAGGAAGACTTCCAGAACCGGGGT 60	Oy 61 GTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATGAGGAGGAGGATGCCTCC 120	OY 121 TCCACTTCCTCTTTCCACTTTTATTCCCCTCCTCTTTCTTGTCCTCATCC 180	QY 181 TCACCCTTGICCTCACCCTTACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGAT 240	OY 241 AIGCTGCTGCTGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCCAGGGT 300

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Xueyuan Road, Beijing 100083, P. R. China
Location/Qualifiers
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/db_xref="taxon:9606"
/note="isolated from homologous serum of a hepatoma
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A new MAGE family gene identified in liver cancer
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/protein_id="AAF36533.1"
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MAGE-BS, MAGE-B6, MAGE-C2 AND MAGE-C3: Four new members of the mage family with tumor-specific expression
Unpublished
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Submitted (20-OCT-1999) Ludwig Institute for Cancer Research,
Universite Catholique de Louvain, avenue Hippocrate, 74, Brussels
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo
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as, S., De Plaen, E. and Boon, T.
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/db_xref="taxon:9606"
/chromosome="X"
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TLYLVESPESFERSSELLIGGEBEEEPPSGVIPNLTESIPSSFPQGPPQGPSQSPLSS
CCSSFSWSFSEESSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVEFLLLKYEAEB
PVTBAEMLMIVIKXDYFPVTULKRAEFEMELLEGLALIEVGPHRCVPANTVGLTDEG
SDDEGMPENSLJIIISVIPIKGCASEEVIMBLGGAALIEVGAREHFVYGEPRELLTK
VWVQGHTERREVPRASPPYYEFLMGPRAHSBSIKKKVLEFLAKLNNTVPSSFPSWYK
DALKDVEERVQATIDTADDATVMASESLSVMSSNVSFSE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lucas,S., De Plaen,E. and Boon,T.
MAGE-B5, MAGE-B6, MAGE-C2 AND MAGE-C3: Four new members of the mage
                                                                                                                                           1163
                                                                                                                                                                                                                                            1164 GTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCCACAGTTCTCCTCCATATTAAA 1223
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                                                                                             897
                                                                                                                                                                                           957
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                           1044 ATAAAGGGCAACTGTGCCTCTGAGGAGGTCATCTGGGAAGTGCTGAATGCAGTAGGGGGTA
                                                                                                                                              104 TATGCTGGGAGGAGCACTTCGTCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGG
                                                                                                                                                                                                                                                                                       TITITGIGGGGTCCAAGAGCCCATTCAGAGGCCAGCAAGA--GAAGTCTTAGAGTTTTTA
                                                                                                                                                                                                                                                                                                                        1224 TICCTGTGGGGTCCAAGAGCCCATTCAGAAAGCATCAAGAAGAAAGTACTAGAGTTTTTA
ATAAAGGGCAGCTGTCCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTG
                                                                                           TGTGCTGGGAGGAGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGG
                                                                                                                                                                                           GTGCAGAGAAAGTACCTGGAGTACCGGGAGGTGCTCCAACAGTGCTCCTCCACGTTATGAA
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Homo sapiens MAGE-C2 (MAGEC2) gene, complete ods.
AF196483
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/product="MAGE-C2"
1287...2408
/gene="MAGEC2"
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|cell_line="LBA3"
|cell_type="sarcoma"
|cell_type="sarcoma"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    family with tumor-specific expression Unpublished
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/db_xref="G1:6319216"
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Lucas, S., De Plaen, E. and Boon, T.
Direct Submission
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/product="MAGE-C2"
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'gene="MAGEC2"
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SDDEGMPENSLLIIILSVIFIKGNOASBEVIWBVLARNGVYAGREHFVYGEPRELLTK
VWVGGHYLEYREVPHSSPPYYBFLWGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYK
DALKDVERRQATIDTADDATWASSLSVMSSNVSFSE"
                                                                                                                                                                                              TLYLVPSPSSFSTSSSLILGGPEEEEVPSGVIPNLTESIPSSPPQGPPQGPSQSPLSS
CCSSPSWSSFSEESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVBFLLLKYEAEB
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Pred. No. 8.2e-133;
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                                                  'note="member of the MAGE
                                                                                             /product="MAGE-C2"
/protein_id="AAF07210.1"
/db_xref="G1:6319214"
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                           qene="MAGEC2"
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il Similarity 73.0%;
764; Conservative 0
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                                                                                                   1287 Ariecciccicriccaeecerrecarrececaacerreacaaceacecececaeerreagn 1346
                                                                                                                                                                      1347 GAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGAGAGGAAGAGAGGAAGCCTCC 1406
                                                                                                                                                                                                                                                                                                     ATTCCCAGTAGTCCTCCACAGGGTCCTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCC 1592
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1653 GATACAGGCACCTGTCAGGGCCTGCCAGACAGTGAGTCCTCTTTCACATATACACTAGAT 1712
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                                                                                                                                                                                                       181 TCACCCTTGTCCTCACCCTTACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGAT 240
                                                                                                                                                                                                                                                                                                                                        241 ATGCCTGCTGCTGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCCAGGGT 300
                                                                                                                                                                                                                                                                                                                                                                                                         CCTCCCAAGATCTCTCCCCAGGGTCCTCCGCAGAGTCCTCCCCAGAGTCCTCTAGACTCC 360
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                                                                                                                                      GTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATGAGGAGGAGGAGGATGCCTCC
                                                                     1 AIGCCICTCTTTCCAAACCITCCACGCTCAGCTTTGAGGAAGACTTCCAGAACCCGAGI
                                      Gaps
                                    71;
   Length 2887;
                                                                                                                                                                                                                                      1407 rcc---gecretrecaerrrenaerragrarrrececerenerre
                                    Indels
 Score 486.4; DB 9;
Pred. No. 8.7e-133;
0; Mismatches 211;
                                                                                                                                                                                                                                                                                                                                                                        GIGCCCTCTGGIGTGATACCAAATCTTACCGAGA
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   46.7%;
73.0%;
                                      764; Conservative
                      Best Local Similarity
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PVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVFANTVGLTDEG
SDDGMPENSLLIIILSVIFIKONSESSTYMBVLARAVGRYEHPYYGEPRELLIK
VWVQGHYLEYREVPHSSPPYYFFLWGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYK
DALKDVEERVQATIDTAVVASESLSVWSSNVSFSE"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 TCACCCTTGTCCTCACCCTTTACCCTCTACTCTCTGGGTGTTCCAGAAGATGAGGAT 240
                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                        2 (bases 1 to 2887)
Qu,W., Wang,Y., Han,K.J. and Chen,W.F.
Direct Submission
Submitted (27-FEB-2000) Immunology, Beijing Medical University,
38#, Xueyuan Road, Beijing 100083, P.R. China
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Argectroccerrocadecerrocarrocadadenteadadecercedecercager
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      Homo sapiens hepatocellular cancer antigen 587 (ECAS87) gene, AF239802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46.7%; Score 486.4; DB 9; Length 2887; 73.0%; Pred. No. 8.7e-133;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /codon_start=1
/product="hepatocellular cancer antigen 587"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCC---GCCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTTTTCT
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                                                                                                                                                                                                                                                                                        1 (bases 1 to 2887)
Qu,W., Wang,Y., Han,K.J. and Chen,W.F.
A new MAGE family gene identified in liver cancer
   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'note="found in a hepatoma patient"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /protein_id="AAK15073.1"
/db_xref="GI:13183143"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mol_type="genomic_DNA"
/db_xref="taxon:9606"
2887 bp
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241 AIGCCIGCIGCIGGGAIGCCACCICITCCCCAGAGICCICCIGAGAITCCICCCCAGGGI 300
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Isolated nucleic acid molecule coding for tumor rejection antigen
precursors MAGE-C1 and MAGE-C2 and uses thereof
Patent: US 6475783-A 20 05-NOV-2002;
Location/Qualifiers

AR243322.1 GI:27290518

AR243322

ACCESSION

VERSION KEYWORDS SOURCE

Unclassified.

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I (bases 1 to 2940)
S lucas,S., Smet,C.D. and Falleur,T.B.
Isolated nucleic acid molecule coding for tumor rejection antigen
precursors MAGE-C1 and MAGE-C2 and uses thereof
IDWHG INSTITUTE FOR CANCER RESEARCH
PN JP 2002503096-A/17
PD 29-JAN-2002
PP 24-ARR-1998 JP 1998547266
PR 25-APR-1998 JF 1998547266
PR 25-APR-1999 US 08/845258
PI SOPHIE LUCAS,CHARLES DE SMET,THIERRY BOON FALLEUR PC
                                                                                                                                                         DNA linear PAT 18-SEP-2002 Isolated nucleic acid molecule coding for tumor rejection antigen Precursors MAGE-C1 and MAGE-C2 and uses thereof.
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2181 TICCIGIGGGGTCCAAGAGCCCATICAGAAAGAACAICAAGAAAGAACATATITA 2240
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73.0%; Pred. No. 8.7e-133;
Live 0; Mismatches 211; Indels
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    /organism="synthetic construct"

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Matches
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TITLE
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TGCTCATCCCCTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAG---TGAAGAGAGAGAGA 417
                                                                              1890 CCTG---ACCACTTCTGTGTGTTTGCAAACACAGAGGCCTCACCGATGAGGGTAG---
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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1 AIGCCICTTICCAAACCI.......CIAICCAGIAICAICCIAG 1041 IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table: Sequence:

22781392 segs, 12152238056 residues Searched:

45562784 Total number of hits satisfying chosen parameters:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description
SUMMARIES		ID
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AG050338 Pan trogl BM792325 K-EST0072 BX335540 BX335540 BX335541 BX335541

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FEATURES

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1 (bases 1 to 671)
Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
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/note="Organ: Stomach; Vector: pT7T3-Pac; Site_1: BcoRI;
Site_2: NotI; The S2SNU16 library was contributed by the
Soares laboratory and it was constructed as described by
Bonaldo, M.F., Lennon, G. and Soares, M.B. (1996), Genome
Research 6(9): 791-806. RNA was prepared from harvested
cells of SNU-16 culture. SNU-16 cell was obtained from
Korean Cell Line Bank (KCLB). SNU-16 was established from
ascitic fluids of Korean patients by Park J.G. et al.
(1990), Cancer Res 50: 2773-2780."
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    Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                   Contact: Mary YS
Genome Research Center
Genome Research Institute of Bioscience & Biotechnology
Korea Research Institute of Bioscience & Biotechnology
52 Eceun-dong Yusecong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsungsmail: kribb.re.kr
Plate: 13 row: C column: 12
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                                                                                                                                                                                                                                     Kim,Y.S.
21C Frontier Korean EST Project 2001
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High quality sequence stop: 671.
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JOURNAL
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                                                                                                                                                       AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /sex="male"
/cell_type="lymphoblast"
/clone_lib="PTB_Chimpanzee_Male_BAC_Library"
a 169 c 152 g 172 t 2 others
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Pred. No. 2.7e-85;
0; Mismatches 101; Indels
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                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                       Vector : pKS145
R.Site 1 : SacI
R.Site 2 : SacI.
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Best Local Similarity 82.0%;
Matches 473; Conservative 0
clone tracking errors.
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BM792325.1 GI:19140557

EST. Homo sapiens (human)

VERSION KEYWORDS SOURCE

RESULT 2 BM792325

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BX335541 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA clone CSODI016YG21 5-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                             474
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545 CAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTCCCATGATCTTCGGGA 604
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1 (bases 1 to 1201)
1 (hases 2 to 1201)
1 (bases 1 to 1201)
Full-length cbNA libraries and normalization
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 10428.r For
more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /tissue type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
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primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized.
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gd:bin/Cluster.cgi?seg=CSODI016ADI1QP1&cluster=10428.r. Contact
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
                                                                                                            CAGAAATACTGGAGGGGTGTCATAAAAATTATGAAGACCACTTCCCTTTGTTGTTTAGTG
                                                                                                                                                                593 AAGCCTCCGAGTGCATGCTGCTCTTTGGCATTGATGTAAAGGAAGTGGATCCCACTG
                                                                                                                                                                                                                     533 GCCACTCCTTGTCCTTGTCACCTCCTGGGCCTCACCTATGATGGGATGCTGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                             785 GCAGCTGTGTCCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTGTGTGCTG
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Location/Qualifiers
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Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
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/db_xref="taxon:9606"
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                                                                                                                             970 CCAAGAGCCCATTCAGAGGCCAGCAAGAG--AAGTCTTAGAGTTTTTATCCAAGCTATCC 1027
                                                             CCAAGAGCTCATTCAGAAGTCATTAAGAGGAAGTAGTAGTAGAGTTTTTGGCCATGCTAAAG 540
                                                                                                                                                                                                                                                                                                                                                                                                                                     BX335540
BX335540 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA clone CS0DI016YG21 3-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /undate_crosson.org.com
/clone=Crobinlofrg21"
/tissue_type="PLACENTA_COT_25-NORMALIZED"
/tissue_type="PLACENTA_COT_25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA_COT_25-NORMALIZED"
/note="Ist strand_cDNA_was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA_was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
a 298 c 281 g 285 t 74 others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCCCCTTCCATTAGATCTAATGAGGCTCCAGCAGCCAAAAGGAGGAGAGCAAA 774
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BP 191 91006 EVRY cedex - France
Email: sequrefégenoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 10428.r For
more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSODIO16AD11NP1&cluster=10428.r. Contact
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODIO16AD11NP1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32.7%; Score 340.8; DB 13; Length 1200; 71.9%; Pred. No. 4e-71;
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/db_xref="taxon:9606"
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BE729944 806 bp mRNA linear EST 15-SEP-2000 601562418F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831893 5', mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /clone_lib="Human MCF7 breast cancer cell line library (MCF7_l)" hote="Vector: pECBAC1; Site_l: HindIII; This library was constructed from MCF7 breast cancer cell line by Amplicon Express (http://www.genomex.com) using their standard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        172 GCCCATTCAGAAAGCACCAAGCAGAAAGTACTAGAGTTTTTGGCCCAAGCTATACAATAGT 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          641 GTGGATTTCCTGCTCCTCAAATATCAACCAAAGGAGCCTATAACAGAGAGTCAGAGATGCTG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        522 TICATAGAG-TTCTTTTTGGCTTTTCCCTGACAGAAGTGGGCCCTG---ACCATTTCTAT
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UCSF Box 0808, San Francisco, CA 94143-0808, USA Tel: 415 502 7066
Fax: 415 502 5665
Email: svolik@cc.ucsf.edu
This clone is available from Amplicon Express http://www.genomex.com
Class: BAC ends.
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                                                                                                                                                                                                                                                                                                                                                           organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="genomic_DNA"
/db_xref="taxon:9606"
/clone="MCF7_1-2C1"
/sex="female"
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1 (bases 1 to 641)
Volik, S., Zhao, S., Chin, K., Brebner, J.H., Herndon, D.R., Tao, Q., Kowbel, D., Huang, G., Lapuk, A., Kuo, W.-L., Magrane, G., de Jong, P., Gray, J.W. and Collins, C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              212 CCAGACAGTGAGTCTTTACCCAGAAGTGAGATAGATGAAAAGGTGACTGATTTGGTGCAG
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Contact: Volik SV
Colin Collins' lab
UCSF Comprehensive Cancer Center
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ACCESSION VERSION KEYWORDS

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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                                                                                                                                                                                                                                                                                                                                                Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Ph.D.
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Location/Qualifiers
                                 BE729944.1 GI:10143936
                                                                                                sapiens (human)
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AGENCOURT_6507236 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5727806
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435 TGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTT 494
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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National Institutes of Health, Mammalian Gene Collection (MGC)
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Invitrogen
Tissue Procurement: Invitrogen
Tissue Procurement: Invitrogen
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can lefound through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAMI2722 row: h column: 15
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/mol_type="mRNA"
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Location/Qualifiers
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BG1 bp mRNA linear EST 04-SEP-2002
AGENCOURT_7931540 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6150482
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 861)
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Tissue Procurement: ATCC/DCTD/DTP
CDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
tound through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                                          525 ATGCCTCTTTTTCCAAACCTTCCACGCTCAGCTTTCAGGAAGACTTCCAGAGGT
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National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                      Length 1062;
                                                    Score 315.4; DB 12; Length
Pred. No. 5e-65;
0; Mismatches 71; Indels
 232
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Location/Qualifiers
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Homo sapiens
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                                                                    Best Local Similarity 84.3
Matches 451; Conservative
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/tissue_type="melanotic melanoma"
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Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2 kb. Library constructed by Life
Technologies."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183 ACCCTTGICCTCACCCTTACCCTCTACTCTATTCTGGGTGTTCCAGAAGATGAGGATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               243 GCCIGCIGCIGCATGCCACCICTICCCCAGAGICCTCCTGAGAITCCTCCCCAGGGICC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 GCCTCTCTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCAGAACCCGAGTGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540 AAAGGCAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 306.2; DB 13; Length 861;
Pred. No. 7.6e-63;
0; Mismatches 168; Indels 73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   779 TAAA-GGGCAGCTGTCCCC--GAGGAGGTCATCTGGGAA 816
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/mol_type="mRNA"
/db_xref="taxon:9606"
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BE895761 937 bp mRNA linear EST 20-OCT-2000 601432579F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917778 5',
                                                         598 TACGCCCAAGACCGCCTCCTGATAATCGTCCTGGGCATGATCTTAATGGAGGGCAGCCG 657
                                                                                                                          GCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTGCAGAGAAAGTA 911
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/note="Organ: pCMV-sport)
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/note="Organ: pCMV-sport)
/note="Organ: pCMV-sport)
/note="Organ: pCMV-sport)
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732 CATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGCCAGCTG 791
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                      718 GCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACCCAAGAGTGGGGTGCAGGAGTA
                                                                                                                                                                                                                                                                                                                                                                                      CCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACGTTATGAATTTT--TGTGGGGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564 CATCAAGAAGTATAAAGGACTATTTTCCCATGATCTTCGGGAAAGCCCCATGAGTTCATAGA
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DTD/DTP
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 10; Length 937;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84; Indels
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Plate: LLAM9744 row: n column: 19
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/lab_host="DH10B (phage-resistant)"
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81.2%; Pred. No. 5.7e-62;
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Location/Qualifiers
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/db_xref="taxon:9606"
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_7790940 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6065636
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/lab_host="DH10B (phage-resistant)"
/clone lib="NIH MGC 72"
/note="Cyrgan: Skin; Vector: pCMV-SPORT6; Site_1: Not1;
Site_2: Sal1; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2 kb. Library constructed by Life
Technologies:"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
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Pred. No. 2.3e-62;
0; Mismatches 175; Indels 5;
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Location/Qualifiers
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Best Local Similarity 70.69
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                                                                                                                                                                                              417 AGAAGTCATTAAGAGGAAAGTAGTAGTAGTTTTTTGGCCATGCTAAAGAATACCGTCCCTA 475
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/lab host="NH10B (phage-resistant)"
/clone_lib="NH1 MGC 88"
/note="Organ: small intestine; Vector: pCWV-SPORT6;
Site_1: Not1; Site_2: Sal1; Cloned unidirectionally;
cligo-dT primed. Average insert size 1.767 kb. Library
enriched for full-length clones and constructed by Life
enriched for size 1.06 this is a NHH MGC Library."
246 c 332 g 196 t
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                                                                          602303163F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:4394703 5'
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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://imag-llhl.go.row: n column: 16
Plate: LLAMI0090 row: n column: 16
High quality sequence stop: 700.
                                                                                                                                                                                                                    924 GGAGGIGCCCAACAGIGCICCTCCACGITAIGAAITITITIGIGGGGICCAAGAGCCCAITC
                                                     ccdccrccrgarrcrrarrcrgagrarcarcrrcaraaagggcaccrargccrcrgagga
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National Institutes of Health, Mammalian Gene Collection (MGC)
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lissue Procurement: Arcc
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
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1 (bases 1 to 1050)
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mRNA
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/organism="Homo sapiens"
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Contact: Robert Strausberg, Ph.D.
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/db_xref="taxon:9606"
/clone="IMAGE:4394703"
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BG024106.1 GI:12409339
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov.rl column: 23
                                                                                                                                                                                                            497 TGCAGTTTCTTCTCCTCAAATATCAAACAAAGAGGCCTGTCACAAAGGCCAGAGATGCTGA
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Pred. No. 8.7e-55;
); Mismatches 172;
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Tissue Procurement: ATCC
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Location/Qualifiers
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                                                                                                                                               cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.B. Consortium/LLNL at:
http://image.llnl.gov. column: 13
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   National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                           Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                 organism="Homo sapiens"
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Location/Qualifiers
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/db_xref="taxon:9606"
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AGENCOURT 7593822 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6065124
5′, mRNA Sequence.
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                                                                                                                /cell line="MGC36"
/lab host="DH10B"
/clone lib="NH10B"
/note="Organ: cervix; Vector: pCMV-SPORT6; Site_1: Not1;
Site_2: Sal1; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.5 kb. Library prepared by Life
Technologies."
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NIH-MGC http://mgc.nci.nih.gov/.
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Pred. No. 1.5e-54;
0; Mismatches 180; Indels 0;
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   'organism="Homo sapiens"
                        /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4995238"
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Best Local Similarity 68.3
Matches 427; Conservative
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                                              BX365439 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED Homo sapiens CSODJ001YA18 5-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note="1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMYSPORT 6 vector. Library was normalized."
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/cell type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell line="JURKAT"
/clone lib="Homo sapiens T CELLS (JURKAT CELL LINE) COT
10-NORMALIZED"
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                                                                                                                                                                                                                                                                                                                                                                             Contact: Genoscope Gentre National de Sequencage Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France BP 191 segref@genoscope.cns.fr Email: segref@genoscope.cns.fr Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 10758.f For
                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSl&J001ZAl0QPl&cluster=10758.f. Contact
cgi-bin/cluster.cgi?seq=CSl&J001ZAl0QPl&cluster=10758.f. Contact
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSlAJ001ZAl0QPl.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          432 GCATGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          740 CGAGTTCATGCAGGTGATCTTTGGCACTGATGTKAAGGAGGTGGACCCCGGCCGGCCACTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25.8%; Score 268.6; DB 13; Length 1201; 66.9%; Pred. No. 9.3e-54; tive 6; Mismatches 201; Indels 6;
                                                                                                                                                                                                                                                                                                         Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                           BX365439.1 GI:30366911
                                                                                                                                                                                                                                                                                       (bases 1 to 1201)
                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 66.9
Matches 431; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . .1201
                                                                                                                                                                                                                   Homo sapiens
                                                                                                                     BX365439
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                                                                    DEFINITION
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                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
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AUTHORS
RESULT 14
BX365439
                                                                                                                   ACCESSION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1039 ACCTGGAGTYCC-GGMRGTGCCCGGCAGTTATCCTGCGCMCTACGAGTYCCTGTKGGGTT 1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EST 21-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         851 AGCACTITATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTGCAGAGAAGT 910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           911 ACCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACGTTATGAATTTTTGTGGGGTC 970
                                                                                                                                                                                                                                                                                                                                                                              920 CGCCCCTGAAGAGTTATCTGGGAAGCGTTGAGTGTKATGGGGGGGTGTATGTTGGGAAGG 979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BG481340 820 bp mRNA linear EST 21-MAR-20
602528684F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:4652205 5',
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Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCMIAS row: g column: 22

High quality sequence stop: 798.
CATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTG
                                                                                                                   860 CATGCCCAAGGCCGCCCTCCTGATCATTGTTCTGGGTGTKATCCTAACCAAAGACAACTG
                                                                                                                                                                                                                                                    792 TGTCCCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAAT-AGGGGTGTGTGTGCTGGGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (bases 1 to 820)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             971 CAAGAGCCCATTCAGAGGCCAGCAAGAGAAGTCTTAGAGTTTTT 1014
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BG481340.1 GI:13413619
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        Qy
        375
        TTTGTGGACCCGATTGGATGAGGAGTCCAGCAG---TGAAGAGGAGATACAGCTACTTG
        431

        Db
        137
        TCTGTGGAGCCAATCGGAGGAGTGAGGACAATGAGGAGGGCCAAGCACTC
        196

        Qy
        432
        GCATGCCTAGCAGAAGTGACTCTGCCAGGATGAAAAGGGGCCAAGCACTC
        196

        Db
        197
        CCCGGACCCAGCTCACCTGGAGTCCCTGTTCCCGGAAGCACTTGATGAGAAAGTGGCTGA
        256

        Qy
        492
        GTTGGTGCAGTTCTTCTCCTCAAATATCAGAAACACAAAAGAGCCTGCAAAGGCAGAAAT
        316

        Db
        257
        GTTGGTTCCTGCTCCACAAATAACGACCACTTTCCCGGAAAGCCCACAAAGCCCC
        511

        Qy
        552
        GCTGACGACTCATCAAAATTAAGGACCTTTTCCCATGATTCGGGAAAGCCCC
        611

        Db
        317
        GCTTGAGAGTCCACAAAATTAACGACAACATTTCCCATGATTCTCACCAAAACCCC
        316
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497 GTACGCCCAAGACCGGCCTCCTGATAATCGTCCTGGGCATCATCTTAATGGAGGGCAGCC 556	791 GTGTCCCCGAGGAGGTCATCGGGAAGTGTTGAGTGCAATAGGGGTGTGTGT	557 GGCCCCGGAGGAGCAATCTGGGAAGCGTTGAGTGTGATGGGGCTGTATGATGGGGAGG 616	

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Search completed: February 19, 2004, 19:59:13 Job time : 2704 secs

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6955.730 Million cell updates/sec
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| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
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| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
| SIDSI / goddata/genseeqn - embl / NAL101B. LATI:
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2: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
3: /SIDSI/gcgdata/geneseq-embl/NA1982.DAT:*
4: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:*
5: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1984.DAT:*
6: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
7: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
8: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1987.DAT:*
9: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:*
11: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:*
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13: /SIDSI/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:*
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                                                                                                                                                                                                                                                                                                                                                   February 19, 2004, 16:50:22; Search time 404 Seconds
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2552756 segs, 1349719017 residues
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                                                                                                                                                                                                                                          OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IDENTITY NUC Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 2000000000
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		Description	cDNA encoding huma	DNA encoding novel	cDNA encoding huma	Tumour rejection a	DNA encoding human	Tumour rejection a	Human breast cell	Human foetal liver
COLUMNIA		ΩI	ABX95006	AAS88354	ABX95004	AAV69727	ABX95005	AAV69726	ABA46075	ABA56617
		DB	25	23	25	20	25	20	22	22
		Query ce Match Length DB ID	1041	7806	1983	2940	2940	1983	425	425
	₩	Query Match	100.0	74.4	46.7	46.7	46.7	46.6	40.8	40.8
		Score	1041	775	486.4	486.4	486.4	484.8	425	425
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## ALIGNMENTS

us-10-085-108-21.rng

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a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-3, MAGE-B5, or MAGE-B6 polymucleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human leukcoyre antigen (HLA) and a peptide derived from the nucleic acid in a cytocoxic T-lymphocyte (CTL) containing sample. The nucleic acid is useful as a diagnostic probe to determine the presence of abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (tumour) cells such as seminoma, bladder transitional-cell carcinoma, head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma, cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPs or tumour rejection antigens (TRAPs). The present sequence represents the coll a gene encoding the human tumour rejection antigen precursor, MAGE-C3, which is located on chromosome Xq27.1-Xq27.3.
                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid molecule which encodes
                                                                                                                                                                                                                                                      Novel isolated nucleic acid encoding tumor rejection antigen precursor MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
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                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Fig 5; 59pp; English.
98US-0066281.
99US-0468433.
                                                                                                                                      Lucas S, Boon-Falleur T;
                                                                                          BOON-FALLEUR T.
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                                                                 (LUCA/) LUCAS S.
24-APR-1998;
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                                                      Gaps
100.0%; Score 1041; DB 25; Length 1041; 100.0%; Pred. No. 2.1e-301; ative 0; Mismatches 0; Indels 0;
                         Best Local Similarity 100.
Matches 1041; Conservative
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New isolated polynucleotide and encoded polypeptides, useful in

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23-AUG-2000; 2000US-0649167.
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The invention relates to isolated polynucleotide (I) and 

diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity

Claim 1; SEQ ID No 24158; 103pp; English.

polypeptide (II) sequences (1) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The and gene mapping, and in recombinant production of (II). The polymerlectides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (1) is useful in gene therapy techniques or restore normal activity of (II) is useful in gene therapy techniques (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) are useful in medical imaging of sites expressing full). (I) and (II) are useful in medical imaging of sites expressing full). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polymucleotide sequences have applications in capponshible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AASS4197-AASS4564 represent novel human configuration, but was obtained in electronic format directly from WIPO at the invipo.int/pub/published\_pct\_sequences.

Sequence 7806 BP; 1755 A; 2185 C; 1760 G; 2106 T; 0 other;

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3440 3261 AIGCCICTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCAGAACCCGAGT 3320 3321 GIGHARAGAGACTIGGIAGATAGAAGATICCAIAGAIGAGAGAGGAGGAGGAIGAITACIAC 3380 3500 CCTCCCAAGATCTCTCCCCAGGGTCCTCCGCAGAGTCCTCCCCAGAGTCTTTAGACTCC 3620 3621 recrearecererringende Accepande Accepande Accepanda 3681 ACAGCTACTTGGCATGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAA 3740 3801 AAGGCAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC 3860 240 480 600 GTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATGAGGAGGAGGAGGATGCCTCC 120 TCCACTTCCTTCCTTTTCCACTTTTTATTCCCCTCCTCTTCCTTGTCCTCATCC 180 360 540 09 1 ATGCCTCTCTTTCCAAACCTTCCAGGCTTCAGCTTTGAGGAAGACTTCCAGAACCCGGAGT TCACCCTTGTCCTCACCCTTTACCCTCTACTCTCAGTGTTCCAGAAGATGAGGAT 3441 TCACCCTTGTCCTCACCCTTACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGAT 3501 Argeorgeorgedargecacererineeccagagerecreagaarrecreeccagager CCTCCCAAGATCTCCCCCAGGGTCCTCCGCAGAGTCCTCCCCAAGAGTCCTCTAGACTCC TGCTCATCCCCTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAGTGAAGAGGAGGAT 421 ACAGCTACTTGGCATGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAA 541 AAGGCAGAGATGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC ATGCCTGCTGCTGGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCAGGGT Gaps ö Length 7806; 0; Indels / Match 74.4%; Score 775; DB 23; L. Local Similarity 100.0%; Pred. No. 3.7e-221; nes 775; Conservative 0; Mismatches 0; 121 3561 361 61 181 241 301 Query Match Matches

3980 720 a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-C3, MAGE-B5, or MAGE-B6 polynocleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a cytotoxic T-lymphocyte (CTL)-containing sample. The nucleic acid is a cytotoxic T-lymphocyte (CTL)-lontaining sample. The nucleic acid is tytotoxic T-lymphocyte as seminoma, badder transitional-cell carcinoma, head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma, cutanecus melanoma or nonsmall cell lung cancer (NSCLC) which express The invention relates to an isolated nucleic acid molecule which encodes TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL; tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor; head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma; cutaneous melanoma; nonsmall cell lung cancer; gene; MAGE-C2; human. MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or 3921 GACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTGATT Novel isolated nucleic acid encoding tumor rejection antigen precursor GACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTGATT 3981 GATGACCAGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCT 4035 GATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCT cDNA encoding human tumour rejection antigen precursor, MAGE-C2. Example 11; Page 28-29; 59pp; English. Location/Qualifiers 330..1447 "MAGE-C2" ABX95004 standard; cDNA; 1983 BP 97US-0845528. 09~FEB-2000; 2000US-0501104 98US-0066281 01-MAR-2002; 2002US-0085108 (first entry) /product= Boon-Falleur T; BOON-FALLEUR T. WPI; 2003-328468/31. P-PSDB; ABU08931 US2002176865-A1. Homo sapiens. 24-APR-1998; 17-DEC-1999; 05-JUN-2003 25-APR-1997; 28-NOV-2002 661 721 ABX95004; Lucas S, (LUCA/) (BOON/) MAGE-B6 Key RESULT 3 **ABX95004** 엄 임 à ò 셤 

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MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPS or tumour rejection antigens (TRAs). The present sequence represents cDNA encoding the human tumour rejection antigen precursor, MAGE-C2.
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                                                                  Sequence 1983 BP; 497 A; 428 C; 512 G; 546 T; 0 other;
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Pred. No. 5.9e-135;
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1164 GTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCCACAGTTCTCCTCCATATTATGAA 1223
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MACE-C2 and MACE-C1 (see AAW81546) are expressed in a variety of tumours and in normal testis cells, but not by other normal cells. The MAGE-C2 gene was isolated from a melanoma LB373-MEL DNA by PCR using primers based on MAGE-C2 CDNA (see AAV69726). The MACE-C2 gene has been localised to Xq26-q27. It includes at least 2 introns. MACE-C2 and MAGE-C1 cDNAS (see AAV69720) are claimed, as are:

EXPRESSION vectors; transformed or transfected cell lines (e.g. COS and CHO); an isolated TRAP encoded by the cDNAS; a kit useful in a PCR based assay; a method for determining expression of a MACE-C1 or GAB assay; a method for determining a number of tumour rejection antigen derived from MAGE-C1 or MAGE-C2; and a polytope comprising at least one tumour rejection antigen. MAGE-C1 and MAGE-C2 and at least one other tumour rejection antigen.

MAGE-C1 and MAGE-C2 can be used in a method for determining the presence of cytolytic T cells specific for complexes of a human
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therapy; diagnosis; ds.
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    Length 2940;
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Score 486.4; DB 20; Length
Pred. No. 7.4e-135;
0; Mismatches 211; Indels
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TRAP; ds; tumour rejection antigen precursor; cytolytic T-cell; CTL; tumour; seminom; bladder translitional-cell carcinoma; NSCLC, adaptor; head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma; cutaneous melanoma; nonsmall cell lung cancer; gene; MAGE-C2; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel isolated nucleic acid encoding tumor rejection antigen precursor MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
                                                                                                                                     DNA encoding human tumour rejection antigen precursor, MAGE-C2
                  2241 GCCAAGCTGAACACACTGTTCCTAG 2266
1016 TCCAAGCTATCCAGTATCATCCTAG 1041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 11; Page 30-32; 59pp; English.
                                                                                                                                                                                                                                         Location/Qualifiers
1287..2406
                                                                                                                                                                                                                                                                           /product= "MAGE-C2"
                                                                        BP
                                                                      ABX95005 standard; DNA; 2940
                                                                                                                                                                                                                                                                                                                                                                       97US-0845528.
98US-0066281.
99US-0468433.
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                                                                                                                                                                                                                                                                                                                                         01-MAR-2002; 2002US-0085108
                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Boon-Falleur T;
                                                                                                                                                                                                                                                                                                                                                                                                                            BOON-FALLEUR T.
                                                                                                                                                                                                    chromosome Xq26-Xq27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-328468/31.
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                                                                                                                                                                                                                                                                                                US2002176865-A1
                                                                                                                                                                                                                                                                                                                                                                                                                 (LUCA/) LUCAS
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24-APR-1998;
                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                             L7-DEC-1999;
                                                                                                                 05-JUN-2003
                                                                                                                                                                                                                                                                                                                     28-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lucas S,
                                                                                                                                                                                                                                                                                                                                                                                                                            (BOON/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MAGE-B6
                 g
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Sequence 2940 BP; 698 A; 710 C; 801 G; 731 T; 0 other;

on chromosome Xq26-Xq27

cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPS or tumour rejection antigens (TRAs). The present sequence represents the human tumour rejection antigen precursor, MAGE-C2, gene which is located

The invention relates to an isolated nucleic acid molecule which encodes a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-03, MAGE-B5, or MAGE-B6 polynucleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a cytotoxic T-lymphocyte (TLI)-containing sample. The nucleic acid is useful as a diagnostic probe to determine the presence of abnormal (tumour) cells such as seminoma, bladder transitional-cell carcinoma, malanna, and more all acidinoma, present exections, sarcons, which express

us-10-085-108-21.rng

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1712
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -------CCACATCTCTCTCTGATTCTTGGTGGTCCTGAGGAGGAG 1496
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              598 TICGGGAAAGCCCAIGAGTICAIAGAGCTAATITITIGGCAITGCCCTGACTGATATGGAC 657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             658 CCCGACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTG 717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         778 ATAAAGGCCAGCTGTGTCCCCGAGGAGAGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTG 837
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 TCACCCTTGTCCTCACCCTTACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGAT 240
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                                                                                                                                                                                                                                                            1 ATGCCTCTCTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCAGAACCCGGAGT
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                                                                                                                                    Gaps
Score 486.4; DB 25; Length 2940;
Pred. No. 7.4e-135;
0; Mismatches 211; Indels 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1497 GIGCCCTCTGGTGTGATACCAAATCTTACCGAGA----
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      46.7%;
                                                                  73.0%;
                                       Local Similarity 73.0
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      Query Match
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This mucleotide sequence encodes novel human tumour rejection antigen precursor (TRAP) MAGE-C2 (see AAW8154). MAGE-C2 is a novel member of the MAGE family that may be recognised by cytotoxic T cells, leading to lysis of the tumour cells which express it.

MACE-C2 and MACE-C1 (see AAW81546) are expressed in a variety of tumours and in normal testis cells, but not by other normal cells.

The MAGE-C2 DDNA was isolated from a melanoma LB373-MEL CDNA using a MAGE-C2 probe produced by PCR (see AAV69723-24). The MACE-C2 gene was also isolated (see AAV69727) and has been localised to Xq28-q27.

MACE-C2 and MACE-C1 CDNAs (see AAV69720) are claimed, as are:

CX man (CHO); an isolated TRAP encoded by the CDNAs; a kit useful in a PCR based assay; a method for determining expression of a MACE-C1 gene using the kit; a polyvope comprising a number of tumour rejection antigens derived from MAGE-C1 or MAGE-C2; and a polytope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumour rejection antigen precursors - used for determining presence of cytolytic T cells specific for complexes of a human leukocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              comprising at least one tumour rejection antigen derived from AGAE-C1 vm AGAE-C2 and at least one other tumour rejection antigen. MACE-C1 and MACE-C2 can be used in a method for determining the presence of cytolytic T cells specific for complexes of a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46.6%; Score 484.8; DB 20; Length 1983; 72.9%; Pred. No. 1.8e-134; ive 0; Mismatches 212; Indels 71;
                                                                                                                                                                                                                                           MAGE-C2; human; tumour rejection antigen precursor; TRAP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1983 BP; 497 A; 428 C; 513 G; 545 T; 0 other;
                                                                                                                                                                                                          Tumour rejection antigen precursor MAGE-C2 cDNA
2241 GCCAAGCTGAACAACACTGTTCCTAG 2266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lucas S;
                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
330..1451
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                                                                                                        ВЪ
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                                                                                                        CDNA; 1983
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                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                             therapy; diagnosis; ds.
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                                                                                                     AAV69726 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P-PSDB; AAW81547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-APR-1998;
                                                                                                                                                                                                                                                                                               Homo sapiens
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                                                                                                                                                                        01-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                     35-NOV-1998.
                                                                                                                                         AAV69726;
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Best Local S
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1 ATGCCTCTCTTTCCAAACCTTCCACGCCTCAGGTTTGAGGAAGACTTCCAGAACCCGGAGT 60

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ABA46075 standard; DNA; 425

ABA46075;

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TITITIGIGGGICCAAGAGCCCATICAGAGGCCAGGA--GAAGICTTAGAGTITITA 1015
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1044 ATAAAGGGCAACTGTGCCTCTGAGGAGGTCATCTGGGAAGTGCTGAATGCAGTAGGGGTA 1103
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                                                                               GTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATGAGGAGGAGGAGGATGCCTCC 120
                                                                                                                                                                                                                                          TCCACTTCCTCTTTCCACTTTTTATTCCCCTCCTCTTTTCCTTGTCCTCATCC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 ATGCCTGCTGCTGGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCCCAGGGT 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              597
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330 ATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAAGGACTCCCCGACCTCAGTT 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCGACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTG 717
                                                                                                                                              GAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGATGAGGAAGAAGAGGAAGAAGCCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 576 ATTCCCAGTAGTCCTCCACAGGGTCCTCCAGGGTCCTTCCCAGAGTCCTCTGAGCTCC
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                                                                                                                                                                                                                                                                                                                                                                                                         181 TCACCCTTGTCCTCACCCTTACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCTCATCCCCTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAG----TGAAGAGGAG
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                                                                                                                                                                                                                                                                                                                         TCC---GCCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTCT------
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The interior restates to a spatial procession in a sample derived from human breast and BT 474 cells. The method involves contacting the probes with a collection of detectably labelled nucleic acids the probes with a collection of detectably labelled nucleic acids derived from mRNA of human breast, and then measuring the label cound to each probe of the microarray. The probes are useful for verifying the expression of regions of genomic DNA predicted to encode proteins. They are useful for gene discovery, and for determining predisposition and/or prognosing breast disease. Gene expression analysis is useful for assessing the toxicity of chemical agents on calls. The microarray of this invention presents a far greater diversity of probes for measuring gene expression, with far less bias than expressed sequence tag microarrays. The method is suitable for capid production of functional information from genomic sequence. The present sequence data for this patent did not form part of the invention. Note: The sequence data for this patent did not form part of the compart of the printed specification, but was obtained in electronic format directly con mile form with a fire manner.
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                                                                                                                                                                                                                                                                                                                              Human; microarray; single exon probe; gene expression; breast;
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                                                                                                                                                                                                                                        Human breast cell single exon nucleic acid probe #4770
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26-MAY-2000; 2000US-0207456.
30-JUN-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
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                                                                                                                                                                                                  Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
                                                                                                                                                                       125 CCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTC 66
                                                                                                                                                                                                                        The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                        TTCATAGAGCTAATTTTTGGCATTGCCCTGACTGATATGGACCCCGGACAACCACTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver -
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                                                                                                                                                                                                                                                              TICITIGAAGACACATTAGACCTCACCTAIGAGGGAAGCCTGATTGATGACCAGGGCAIG 735
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                                                         Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; gene expression; heart; microarray; vascular system; probe; cardiovascular disease; hypertension; cardiac arrhythmia;
                                                        0;
                           Length 425;
                                                     Indels
Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
                         40.8%; Score 425; DB 22; I 100.0%; Pred. No. 6.6e-117;
                                        ilarity 100.0%; Pred. No. 6.6
Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chen W, Rank DR;
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26-MAY-2000, 2000US-0207456.
30-UJN-2000; 2000US-0608408
03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234687.
04-OCT-2000; 2000US-0234263.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         congenital heart disease; ss.
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                                      Similarity
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                                                   425;
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Homo sapiens.

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                                                                                                              The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosting, grading, staging, monitoring and prognosing diseases of the human heart and vascular system expression, the expression is a staging and prognosing diseases of the human heart and vascular system expression, cardiac arrhythmias and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  366
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                                                                                                                                                                                                                                                                 Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGCAGTTTCTTCTCCTCAAATATCAAACAAAAGAGCCTGTCACAAAGGCAGAGATGCTG
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microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
epilepsy; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                               .,
                                                                                                                                                                                                                                                                                                                                                                              Length 425;
                                                                                                                                                                                                                                                                                                                                                                     40.8%; Score 425; DB 22; Length 4 100.0%; Pred. No. 6.6e-117; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human brain expressed single exon probe SEQ ID NO: 4749.
                                                                                                                                                                                                                                                                                                                                    Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
                                                                                Claim 1; SEQ ID No 4696; 530pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAK04758 standard; DNA; 425
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                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity Addition Matches 425; Conservative
                                                                                                                                                                                                                                                   congenital heart disease.
 WPI; 2001-488899/53
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            366
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
                                                                                                                                                                                                                                                                  Rank DR;
                                                                                                              04-FEB-2000; 2000US-0180312.
26-MAX-2000; 2000US-0207456.
30-JUN-2000; 2000US-0608408.
33-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234687.
04-OCT-2000; 2000GB-0024263.
                                                                                                                                                                                                                                  (MOLE-) MOLECULAR DYNAMICS INC
                                                                                                                                                                                                                                                                  Chen W,
                                                                                     30-JAN-2001; 2001WO-US00667
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                           WO200157275-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 555
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Gaps
                                                                                                       Human; bone marrow expressed exon; gene expression analysis; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention provides a number of single exon nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                   Human genome-derived single exon nucleic acid probes useful for
                                                                                    Human bone marrow expressed single exon probe SEQ ID NO: 4839.
                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; SEQ ID NO: 4839; 658pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 425; DB 22; Length 425;
Pred. No. 6.6e-117;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                      microarray; cancer; leukaemia; lymphoma; myeloma; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                               analyzing gene expression in human bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                40.8%; Scc...
100.0%; Pred. No. ...
0; Mismatches
                                                                                                                                                                                                                                                                                                                                          Chen W, Rank DR;
                                                                                                                                                                                                                                                                                                                   (MOLE-) MOLECULAR DYNAMICS INC.
                                                                                                                                                                                                                             2000US-0180312.
2000US-0207456.
2000US-0608408.
2000US-0632366.
2000US-0234687.
                   AAK30282 standard; DNA; 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the probes of the invention.
                                                                                                                                                                                                                                                                                              04-OCT-2000; 2000GB-0024263.
                                                                                                                                                                                                         30-JAN-2001; 2001WO-US00668
                                                             06-NOV-2001 (first entry)
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Best Local Similarity
                                                                                                                                                              WO200157276-A2.
                                                                                                                                          Homo sapiens.
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                                                                                                                                                                                                                              04-FEB-2000;
26-MAY-2000;
                                                                                                                                                                                                                                                                                   27-SEP-2000;
                                                                                                                                                                                    09-AUG-2001
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                                         AAK30282;
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RESULT 11
AAK30282/c
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                               The present invention relates to human single exon nucleic acid probes (SENP). The present sequence is one such probe. The SENPs are derived from human Hela cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are therefore useful in grading and/or staging of diseases of the cervix, notably cervical cancer.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Probe #4815 for gene expression analysis in human cervical cell sample.
                                                                                                                                                    CCCAAGAACTGTCTCCTGATTCTTCTTATTCTCAGATCTTCATAAAGGGCAGCTGTGTC
                                                                                                           human; microarray; gene expression; cervical epithelial cell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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Local Similarity 100.0%; Pred. No. 6.6e-117;
es 425; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 25; SEQ ID No 4815; 487pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                      AAI14882 standard; DNA; 425 BP.
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26-MAY-2000; 2000US-0207456.
30-JUN-2000; 2000US-06608408.
33-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0236887.
27-SEP-2000; 2000US-0236359.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cervical cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-488901/53.
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436 GCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTG 495

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producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.
                                                     Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAI04666 standard; DNA; 425 BP.
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21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
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30-JUN-2000; 2000US-0608408
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425 GCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTG 366
                                          365 GIGCAGTITCTICTCCTCAAAAATAACAAAAAAGGCCTGTCACAAAAGGCAGAATGCTG 306
                                                                      556 ACGACTGTCAAGAAGTATAAGGACTATTTCCCATGATCTTCGGGAAAGCCCCATGAG 615
                                                                                                                      TTCATAGAGCTAATTTTTGGCATTGCCCTGACTGATAGGACCCCGACAACCACTCCTAT 675
                                                                                                                                                                      TICITIGAAGACACATIAGACCICACCIATGAGGGAAGCCIGAIIGAIGACCAGGGCAIG 735
                                                                                                                                                                                                                                                                    CCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTC 66
                                                                                                                                                                                                                                                                                     65 CCCGAGGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTGTGTGCTGGGAGGGGGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to single exon nucleic acid probes (SENP). The present sequence is one such probe. The probes are useful for
                                                                                                                                                                                     GTGCAGTTTCTTCTCCTCAAATATCAAACAAAAGAGCCTGTCACAAAGGCAGAGATGCTG
                                                                                                                                              245 TICATAGAGCIAAITITIGGCATIGCCCIGACIGAIAIGGACCCCGACAACCACICCTAI
                                                                                                                                                                                                                     CCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Probe #4923 used to measure gene expression in human placenta sample.
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genetic disorder; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                        AAI36237 standard; DNA; 425 BP.
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26-MAY-2000; 2000US-0207456.
30-UUS-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234359.
04-OCT-2000; 2000GB-0024263.
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                                                                                                                                                                                                                                                365 GIGCAGILICIICICCICAAAIAICAAACAAAGAGCCIGICACAAAGGCAGAGAGAIGCIG 306
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                                                                                                                                                425 GCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTG
                                                                                                                                                                                             496 GIGCAGITICITCICCTCAAAIAICAAACAAAAGGCCTGICACAAAGGCAGAGAGATGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         556 ACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTCGGGAAAGCCCATGAG
                                                                                                                                                                                                                                                                                                                                                                                           616 TTCATAGAGCTAATTTTTGGCATTGCCCTGACTGATATGGACCCCGGACAACCACTCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                      245 TTCATAGAGCTAATTTTTGGCATTGCCCTGACTGATAGGACCCCGACAACCACCACTAT
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                                                       0;
Ouery Match
40.8%; Score 425; DB 22; Length 425;
Best Local Similarity 100.0%; Pred. No. 6.6e-117;
Matches 425; Conservative 0; Mismatches 0; Indels
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The present invention relates to novel single exon nucleic acid probes. The present sequence is one such probe. The probes are useful for measuring human gene expression in a human breast sample, where the probe hybridises at high stringency to a nucleic acid expressed in the human breast. The probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human breast, particularly those diseases with polygenic actiology. The diseases of the breast cancer, disorders of development, inflammatory diseases of the breast, fibrocystic changes, proliferative breast disease and hon-carcinoma tumours.
                                                                                                                                                                                                                                                                                                                                                                                                                      Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                          Novel single exon nucleic acid probe used to measuring gene expression in a human breast -
                                                                                                                                                                 Claim 25; SEQ ID No 4657; 322pp; English.
                          Rank DR;
                          3
                      Chen
                        Hanzel DK,
                                                                WPI; 2001-476286/51
                                                                                                          Novel
                        Penn
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365 GIGCAGITICITCITCITCITCAAATAICAAAAAAAAGCCTGICACAAAAGGAGCAGAGAIGCIG 306 556 ACGACTGTCATCAAGAAGTATAAGGACTATTTCCCATGATCTTCGGGAAAGCCCATGAG 615 305 ACGACTGTCATCAAGAAGTATAAAGGACTATTTTCCCATGATCTTCGGGAAAGCCCCATGAG 246 TICATAGAGCIAATITITGGCATTGCCCTGACTGATATGGACCCCGACAACCACTCCTAT 675 Trentrichagacacarragacerentendadegaageergarrangaceagecare GIGCAGIIITCIICCICCAAAIAICAAACAAAAGAGCCIGICACAAAGGCAGAGAIGCIG 436 GCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTG 245 TTCATAGAGCTAATTTTTGGCATTGCCCTGACTGATATGGACCCCGACAACCACTCCTAT Gaps ; 40.8%; Score 425; DB 22; Length 425; Indels Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other; 100.0%; Pred. No. 6.6e-117; ive 0; Mismatches 0; Conservative Local Similarity 425; 496 919 Query Match 616 185 736 125 961 65 Matches q ò 셤 Db à δŻ g à g ò P. ð g à

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736 CCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTC 795
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Local Similarity
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                                                     CCCAAGAACTGTCTCCTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTC
                                                                                                                                                                                                Human liver single exon probe, SEQ ID No 4917
                                                                                                                                           BP
                                                                                                                                      ABS29927 standard; DNA; 425
                                                                                                                                                                              (first entry)
                                                                            TTTAT 860
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495
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         425 GCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGTGGCTGAGTTG 366
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human genome-derived single exon nucleic acid probes useful for analysing gene expression in human adult liver -
Human; single exon nucleic acid probe; liver; cirrhosis;
hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;
coronary heart disease; ss.
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21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236599.
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TELEFAX: (212) 752-558
INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS: LENGTH: 2340 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage COMPUTER: IBM PS/2
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0; Mismatches 211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/066,281B
FILING DATE: April 24, 1998
CLASSIFICATION:
PRIOR APPLICATION
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/845,528
FILING DATE: April 25, 1997
ATTORNEY/AGENT INFORMATION:
20, Application US/09066281B
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STRANDEDNESS: double-stranded
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REGISTRATION NUMBER: 36,66
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Matches 764; Conservative
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                                                              478 GAAAAGGIGGCIGAGIIGGIGCAGIIITCIICCICCICAAAIAICAAACAAAGAGCCIGIC 537
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 GATACAGCTACTTGGCATGCCTTGCCAGAAAGTGAATCCTTGCCCAGGTATGCCCTGGAT 477
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Patent No. 5997872
GENERAL INFORMATION:
APPLICANT: LUCAS, Sophie;
APPLICANT: LUCAN: DE SMEY. Charles;
APPLICANT: BOON-FALLEUR: Thierry
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR TITLE OF INVENTION: THEREOF INVENTION: THEREOF NUMBER OF SEQUENCES: 14
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,118
FILING DATE:
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carT: 805 Third Avenue
CITY: New York City
STATE: New York
CUNTRY: ITC*
ZTD
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OPERATING SYSTEM: PC-DOS
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ADDRESSEE: Felfe & L.
STREET: 805 Third Av
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Pred. No. 3.6e-97;
0; Mismatches 166;
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/845,528
FILING DATE: April 25, 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                        LUD 5455
                                                                                                                             REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 54:
TELEPHONE: (212) 688-9200
TELEFRAX: (212) 688-9200
TELEFRAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4031 base pairs
TYPE: nucleic acid
STRANDEDNESS: double-stranded
                                                                                                               Mary Anne Schofield
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     39.5%;
74.1%;
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Matches 608; Conservative
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TELEPHONE:
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3235 ICCICCICGTIACGAATICCIGIGGGICCAAGAGCICATICAGAAGICATIAAGAGGAA 3294
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                                                                                                                                                                                                                                  APPLICANT: DUCAS, Sophie,
APPLICANT: DE SNET, Charles,
TITLE DE INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
TITLE OF INVENTION: THERROF
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pelfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      47; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       39.5%; Score 411.4; DB 3; Length 74.1%; Pred. No. 3.6e-97; Live 0; Mismatches 166; Indels
                                       1000 AGTCTTAGAGTTTTTTATCCAAGCTATCCAGTATCATCCTA 1040
                                                                             3295 AGTAGTAGAGTTTTTGGCCATGCTAAAGAATACCGTCCCTA 3335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3: Diskette, 3.5 inch, 360 kb storage IBM PS/2
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FILING DATE: April 25, 1997
CLASSIFICATION: 4335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LUD 5455
                                                                                                                                                                           ; Sequence 1, Application US/08845528C; Patent No. 6027924; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 4031 base pairs
TYPE: nucleic acid
STRANDEDNESS: double-stranded
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NAME: Mary Anne Schofield
REGISTRATION UNDRER: 36,669
REFRENCE/DOCKET NUMBER: LUD
TELEPRONNICATION INFORMATION:
TELEPHONE: (212) 688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (212) 836-3884
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Wordperfect CURRENT APPLICATION DATA:
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Matches 608; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PS/
OPERATING SYSTEM:
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Sequence 1, Application US/09066281B
Patent No. 6475783
GENERAL INFORMATION:
APPLICANT: LUCAS, Sophie; DE SMET, Charles; BOON-FALLEUR, Thierry
TITLE OF INVENTION: FOR TUMOR REJECTION MOLECULE CODING
TITLE OF INVENTION: FOR TUMOR REJECTION ANTIGEN PRECURSOR MAGE-C1 AND MAGE-C2
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
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                                                                                                           2818 AGTGAAGCAGCCTATCACAAAGGCAGAGATGCTGACGAATGTCATCAGCAGGTACACGGG 2877
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522 AACAAAAGAGCCTGTCACAAAGGCAGAGATGCTGACGACTGTCATGAAGAAGTATAAGGA 581
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REFERENCE/DOCKET NUMBER: LUD 5455.2 US - JEL/MAS
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTAL.
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
"MADIUM TYPE: DISKette, 3.5 inch, 360 kb storage
"MADIUM TYPE: DISKETTE, 3.5 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fulbright & Jaworski L.L.P
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APPLICATION NUMBER: US/09/066,281B
FILING DATE: April 24, 1998
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APPLICATION NUMBER: 08/8.
FILING DATE: April 25, 13
ATTORNEY/AGENT INFORMATION:
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US-09-066-281B-1
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                                                                                                                                                                                                                          47; Gaps
                                                                                                                                                                          39.5%; Score 411.4; DB 4; Length 4031; 74.1%; Pred. No. 3.6e-97; Live 0; Mismatches 166; Indels 47;
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            INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4031 base pairs
TYPE: nucleic acid
STRANDEDNESS: double-stranded
(212) 752-5958
                                                                                                                                                                                                             Matches 608; Conservative
                                                                                                                   linear
                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                             TOPOLOGY:
TELEFAX:
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; Sequence 9, Application US/08993118

RESULT 6 US-08-993-118-9

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2728 TCTTTCCAGAGTTCTCCTGTGAGCTCCTTCCCTCCTCCACTTCATCGAGTCTTTCCAA 2787
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 39.5%; Score 411.4; DB 2; Length 4225;
74.1%; Pred. No. 3.6e-97;
Live 0; Mismatches 166; Indels 47; Gaps
GENERAL INFORMATION:
APPLICANT: LUCAS, Sophie;
APPLICANT: DE SMET, Charles;
APPLICANT: DE SMET, Charles;
APPLICANT: BOON-FALLEUR, Thierry
TITLE OF INVENTION: REJECTION NUCLEIC ACID MOLECULE CODING FOR TUN
TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
COMPUTER: IBM PS/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/845,528
FILING DATE: April 25, 1997
ATTORNEY AGENT INFORMATION:
NAME: Mary Anne Schoffield
REGISTATION NUMBER: 36,669
REPERENCE/DOCKET NUMBER: LUD 5455
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,118
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EDNESS: double-stranded
                                                                                                                                                                                                                               SSSE: Felfe & Lynch
ST: 805 Third Avenue
New York City
S: New York
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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Matches 608; Conservative
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                  USA
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STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                          10022
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COUNTRY:
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3088 CTACTITCCTGTGATCTTCAGGAAAGCCCGTGAGTTCATAGAGATACTTTTGGCATTTC 3147
                                                                             3148 CCTGAGAGAAGTGGACCCTG---ATGACTCCTATGTCTTTGTAAACACATTAGACCTCAC 3204
                                                                                                                                                                3205 CICIGAGGGGTGICIGAGTGATGAGCAGGGCAIGTCCCAGAACCGCCICCIGAIICIIII 3264
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                                        CCTGACTGATATGGACCCCGACACCACTCCTATTTCTTTGAAGACACATTAGACCTCAC
                                                                                                                        702 CTATGAGGGAAGCCTGATTGATGACCAGGGCATGCCCAAGAACTGTCTCGTGATTCTTAT
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APPLICANT: DE SMET, Charles;
APPLICANT: DE SMET, Thierry
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUN
TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-CI AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1000 AGICTTAGAGITTTTATCCAAGCTATCCAGTATCATCCTA 1040
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FILING DATE: April 25, 1997
CLASSIFICATION: 4335
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Patent No. 6027924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acids
STRANDEDNESS: double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Mary Anne Schoffeld
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUT
TELECOMMUNICATION:
TELEPHONE: (212) 688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Felfe Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
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ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4225 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
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OPERATING SYSTEM:
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Sophie; DE SMET, Charles; BOON-FALLEUR, Thierry
: ISOLATED NUCLEIC ACID MOLECULE CODING
: FOR TUMOR REJECTION ANTIGEN PRECURSOR MAGE-C1 AND MAGE-C2
: AND USES THEREOF
: 20
                                                                                                                                       2728 reirreceagagirerecergisagerecereeceeerecacirearegagereirecaa 2787
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                                                                                            264 ICTICCCCAGAGICCTCCTGAGATICC---ICCCCAGGGICCTCCCCAAGAICTCTCCCCA 320
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                                                        47;
              DB 3; Length 4225;
         Score 411.4; DB 3; Length 4
Pred. No. 3.6e-97;
0; Mismatches 166; Indels
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Patent No. 6475783
GENERAL INFORMATION:
APPLICANT: LUCAS, Sophie, DE SMET,
ITLE OF INVENTION: FOR TUMOR REDEC
ITLE OF INVENTION: FOR TUMOR REDEC
ITLE OF INVENTION: AND USES THEREO
NUMBER OF SEQUENCES: 20
                                                                                                                                                                                                                                                                                                                                                                        CTTGCCAGAAAGTGAATCCTTGCC-
         39.5%;
74.1%;
Query Match
Best Local Similarity 74.1
Matches 608; Conservative
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US-09-066-281B-9
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762 TCTCAGTALGATCTTCATAAAGGGCAGCTGTGTCCCCGAGGAGGTCATCTGGGAAGTGTT 821
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APPLICANT: Gure, Ali
APPLICANT: Tsang, Solam
APPLICANT: Stockert, Elisabeth
APPLICANT: Jager, Elke
APPLICANT: Knuth, Alexander
APPLICANT: Old, Lloyd J.
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NUMBER OF SEQ ID NOS: 8
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Best Local Similarity 74.11
Matches 608; Conservative
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION
PRIOR APPLICATION
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: April 25, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Mary Anne Schoffield
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 5455.2 US - JEL/MAS
TELECPHONE: (212) 7129-3100
TELECPHONE: (212) 712-5558
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 4225 base pairs
TYPE: nucleic acids
STRANDEDNESS: double-stranded
                                                                                                                                                       ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
      E: Fulbright & Jaworski L.L.P.
666 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/066,281B
FILING DATE: April 24, 1998
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                                                                    New York City
New York
                                                                                                                                                                                                                                                                         IBM PS/2
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hes 608; Conserva
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ADDRESSEE:
                                                                                                                                                                                                                                                                      COMPUTER:
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                                                                                                                                   COUNTRY:
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TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof FILE REFERENCE: LUD 5538
CURRENT APPLICATION NUMBER: US/09/061,709B
                                                                                                                                                                                                                                                                                                                                                                                                           3445 TCCTCCTCGTTACGAATTCCTGTGGGGTCCAAGAGCTCATTCAGAAGTAA 3504
3265 TCTGAGTATCATCTTCATAAAGGGCACCTATGCCTCTGAGGAGGTCATCTGGGGATGTGCT 3324
                                                                                                                                                                                                                                                                                          3385 ccrcacranagriridagriccagnacarraccranagraccegnagriccenacrerc 3444
                                                                            882 GCTCACTATACATTGGGTGCAGAGAAGTACCTGGAGTACCGGGAGGTGCCCAACAGTGC 941
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1000 AGTCTTAGAGTTTTTATCCAAGCTATCCAGTATCATCCTA 1040
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381 GACCCGATTGGATGAGGAGTCCAGCAG---TGAAGAGGAGGATACAGCTACTTGGCATGC 437
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                                                                                   438 CTTGCCAGAAAGTGAATCCTTGCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3SSEE: Felfe & Lynch
3T: 805 Third Avenue
: New York City
3: New York
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MEDIUM TYPE: Diskette
COMPUTER: IBM
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CORRESPONDENCE ADDRESS:
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CTATTITCCCATGAICTICGGGAAAGCCCATGAGTICATAGAGCTAAITTITGGCAITGC
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                                                                       642 CCTGACTGATAIGGACCCCGACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCAC
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                                                                                                                                                CIATGAGGGAAGCCTGATTGATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTAT
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APPLICANT: Stockert, Elisabeth
APPLICANT: Jager, Elke
APPLICANT: Jager, Elke
APPLICANT: Jager, Elke
APPLICANT: Jager, Elke
APPLICANT: Old, Lloyd J.
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer;
TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof;
TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof;
TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof;
CURRENT APPLICATION NUMBER: US/09/899,651
CURRENT FILING DATE: 2001-07-06
PRIOR PELING DATE: 1998-04-17
NUMBER OF SEQ ID NOS: 8
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Patent No. 6576756
GENERAL INFORMATION:
APPLICANT: Chen, Yao-Tseng
APPLICANT: Gure, Ali
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74.1%;
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Best Local Similarity 74.18
Matches 608; Conservative
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ORGANISM: Homo sapiens
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APPLICANT:
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2878 GAGCCCATTCAGTGAAGAGTCCAGCAGCCCAGTAGATGAATATACAAGTTCCTCAGACAC 2937
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                                                                                                                                                                                                                                                       462 CAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTGGTGCAGTTTCTTCTCCTCAAATATCA
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994 GGATGCTGAGTGATGTCCAGAGGATGCCCAAGACTGGCATTCTCATACTTATCCTAAGCA 1053
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
32.9%; Score 342.2; DB 2; Length
Best Local Similarity 69.7%; Pred. No. 2.6e-79;
Matches 498; Conservative 0; Mismatches 199; Indels
                                                                APPLICATION NUMBER: US/08/724,774B
FILING DATE: 03-October-1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                             NAME: Hanson, No. 5908778man D.
REGIGTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEPAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2559 nucleotides
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
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308 AGAICTCCCCAGGGICCTCCGCAGAGICCTCCCCAGAGICCTCTAGACTCCTGCTCAT 367
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Antibodies Specific To The Molecule, and
Uses Thereof
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                                                                                      APPLICANT: Rimoldi, Donata; Jongeneel, Victor; Coulie, APPLICANT: Rimoldi, Donata; Jongeneel, Victor; Coulie, APPLICANT: Stefan; Reed, Darry; TITLE OF INVENTION: MAGE-10 ENCODING CDNA, The Tumor TITLE OF INVENTION: Rejection Antigen Precuros Mage-10 TITLE OF INVENTION: Attibodies Specific To The Molecul, TITLE OF INVENTION: Uses Thereof

NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 342.2; DB 3;
Pred. No. 2.6e-79;
0; Mismatches 199;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: LUD 5457
TELECOMMINICATION INFORMATION:
TELEFRONE: (212) 638-3884
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,774
FILING DATE: 03-October-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/089,595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Hanson, No. 6153728man D. REGISTRATION NUMBER: 30,946
                         ; Sequence 3, Application US/09089595; Patent No. 6153728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30,946
                                                                                                                                                                                                                                                                                                                  SSEE: Felfe & Lynch
ST: 805 Third Avenue
New York City
3: New York
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Best Local Similarity 69.7%;
Matches 498; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 2559 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
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Best Local Similarity
                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE
                                                                                                                                                                                                                                                                                                                ADDRESSEE:
US-09-089-595-3
                                                                                                                                                                                                                                                                                                                                              STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-089-595-3
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994 GGATGCTGAGTGATGTCCAGAGCATGCCCAAGACTGGCATTCTCATACTTATCCTAAGCA 1053
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                                                                                                                                                                                                       574 Adgiricigcigardangagacacaaarcciccadagigcricagaragccrocrics
                                                                                                                                                                                                                                                                                                      634 decertegeregriecrifectifecatragareatreateateagecreaededecedae 693
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                                                                                                                                                            308 AGATCTCCCCAGGGTCCTCCGCAGAGTCCTCCCCAGAGTCCTCTAGACTCCTGCTCAT
                                                                                                                                                                                                                                                                  CTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAGTGAAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Brasseur, Francis
APPLICANT: Rimoldi, Donata
APPLICANT: Rimoldi, Donata
APPLICANT: De Plaen, Etienne
TITLE OF INVENTION: Method for Determining Cancer by Determining
TITLE OF INVENTION: of MAGE-10
                                                                     DB 3; Length 2559;
                                                                Score 342.2; DB 3; Length 2
Pred. No. 2.6e-79;
0; Mismatches 199; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/183,714B
CURRENT FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: US 08/724,774
PRIOR FILING DATE: 1996-10-03
NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3, Application US/09183714B Patent No. 6221593 GENERAL INFORMATION:
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                                                                                    69.78;
                                                                                                           Matches 498; Conservative
                                                                                         Best Local Similarity
                                                                                                                                                                                                                                                             368 CCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-183-714B-3
               US-09-382-855-3
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                                                                Query Match
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GENERAL INFORMATION:
APPLICANT: Rimclid, Donata; Jongeneel, Victor; Coulie, Pierre;
APPLICANT: Cerrottini, Jean-Charles; Carrel, Stefan; Reed, Daryl
TITLE OF INVENTION: MAGE-10 ENCODING CDNA, The Tumor Rejection
TITLE OF INVENTION: Antigen Precuros Mage-10, Antibodies Specific To The Molecule,
                                                                                                                                                                                                               994 GGATGCTGAGTGATCTCCAGAGCATGCCCAAGACTGGCATTCTCATACTTATCCTAAGCA 1053
                                                                                                                                                                                                                                                                               829
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                                                                                                                                                                                                                                                                                                                                                                 830 TAGGGGTGTGTGCTGGGAGGAGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACAA 889
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CITICITICATICATICAGCICCCGAGIGCAIGCICCTTIGGCALIGAIGIAAAGG 933
                                                                     650 ATAIGGACCCCGACAACCACTCCIATITCITIGAAGACACAITAGACCICACCTAIGAGG 709
                                                                                                                   AAGTGGATCCCACTGGCCACTCCTTGTCCTTGTCACCTCCTGGGCCTCACCTATGATG 993
                                                                                                                                                                                                                                                                  770 TGATCTTCATAAAGGGCAGCTGTGTCCCCGAGGAGGTCATCTGGGAAAGTGTTGAGTGCAA
                                                                                                                                                                      GAAGCCTGATTGATGACCAGGGCATGCCCAAGAACTGTCTCCTGATTCTTATTCTCAGTA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3: Fulbright & Jaworski LLP
666 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/089,595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 02-June-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US/09/382,855
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NAME: Schofield, Mary Anne
REGISTRATION NUMBER: 36,669
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: LU
TELECOMMUNICATION INFORMATION:
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TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2559 nucleotides
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
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CITY: New York City
STATE: New York
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EDNESS: single
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 2559;
                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 09/089,595
FILING DATE: 02-June-1998
APPLICATION NUMBER: US 08/724,774
FILING DATE: 03-October-1996
ATTORNEY/AGRIT INFORMATION:
NAME: Schofield, Mary Anne
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: 36,669
                                                                                                        MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
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                                                                                                                                                                   SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/642,281
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SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
                                                                                                                                                     OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                           FILING DATE: 18-Aug-2000
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 2559 nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
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                                                            ZIP: 10103
COMPUTER READABLE FORM:
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Best Local Similarity 69.7°
Matches 498; Conservative
                                                                                                                                  COMPUTER: IBM
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Sequence 3. Application US/09642281
Patent No. 6387698
GENERAL INFORMATION:
APPLICANT: Rimoldi, Donata; Jongeneel, Victor; Coulie, Pierre;
Cerrottini, Jean-Charles; Carrel, Stefan; Reed, Daryl
TITLE OF INVENTION: MAGE-10 ENCODING CDNA, The Tumor Rejection
Antigen Precuros Mage-10, Antibodies Specific To The Molecu
                                                                                                                                                                                          2;
                                                                                                                                                                                                                   308 AGAICTCTCCCCAGGGICCTCCGCAGAGICCTCCCCAGAGICCTCTAGACTCCTGCTCAI 367
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                                                                                                                                           Length 2559;
                                                                                                                                                                                   Indels
                                                                                                                                    Score 342.2; DB 3;
Pred. No. 2.6e-79;
0; Mismatches 199;
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ADDRESSEE: Fulbright & Jaworski LLP
STREET: 666 Fifth Avenue
CITY: New York City
                                                                                                                                    32.9%;
                                                                                                                                                                          Matches 498; Conservative
                       TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                             Query Match
Best Local Similarity
LENGTH: 2559
                                                                                   US-09-183-714B-3
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US-09-642-281-3
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Search completed: February 19, 2004, 20:01:01 Job time: 104 secs

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human secreted proteins, and encode the proteins given in AAY01602 and AAY1094 to AAY12026, respectively. The proteins given represent the AAY11205 and AAY12050, respectively. The proteins given represent the signal peptide and an N-terminal fragment of a secreted protein. The nucleic acid sequences can be used for producing secreted human gene products. They can also be used to develop products for diagnosis and therapy. The proteins obtained may have cytokine activity, cell proliferation/differentiation activity, hemmatopoissis regulating activity, thesus growth regulating activity, hemmatopoissis regulating activity, themcatchic/demoximetric activity, anti-inflammatory activity, tumour inhibition activity or other activities. The products can be used in forensis, gene therapy and chromosom mapping procedures. The sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptide can be used for directing extracellular secretion of a polypeptide into a membrane, or importing a polypeptide into
                                                                                                                                                                                                         New nucleic acids encoding human secreted proteins - obtained from cDNA libraries prepared from kidney, fetal kidney, dystrophic muscle, muscle and heart tissue
                                                                                                        Dumas Milne Edwards J, Lacroix B;
                                                                                                                                                                                                                                                                                                  Claim 1; Page 389; 622pp; English.
                        97US-0905134.
                                                                                                                                             WPI; 1999-153784/13.
P-PSDB; AAY12217.
                                                              (GEST ) GENSET.
                      01-AUG-1997;
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87.6%; Score 18.4; DB 20; Length 321; 95.0%; Pred. No. 1.8e+02; Live 0; Mismatches 1; Indels 0. Sequence 321 BP; 72 A; 96 C; 84 G; 68 T; 1 other; 107 TCATCCTCATCCTTGTCCTC 126 1 TCATCCTCACCCTTGTCCTC 20 Local Similarity 95.0 Query Match Best Loca Matches g à

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Gaps

0;

Human inflammatory bowel disease related gene fragment IGR3480a. AAH93187 standard; DNA; 700 BP 09-OCT-2001 AAH93187; RESULT 15 AAH93187 

(first entry)

Human, inflammatory bowel disease, Crohn's disease, ulcerative colitis, single nucleotide polymorphism; SNP; chromosome 19p13; paternity test; chromosome 5q31-33; forensic test; gene therapy; ds.

WO200142511-A2.

14-JUN-2001

99US-0170257 10~DEC-1999;

11-DEC-2000; 2000WO-US33632.

10-APR-2000; 2000US-0196046

(WHED ) WHITEHEAD INST BIOMEDICAL RES. (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.

Lander ES, Rioux J, Siminovitch K; Daly M, Hudson TJ, WPI; 2001-367874/38 Testing for the presence of polymorphisms associated with inflammatory bowel disease, using a hybridization assay -

Disclosure; Page 431; 463pp; English

polymorphisms associated with inflammatory bowel diseases such as ulcerative colitis and Crohn's disease. The methods can be used to detect the presence of genetic polymorphisms associated with inflammatory bowel disease and correlating their occurrence with disease states. They may be used in this way for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis. The present sequence is a gene containing a polymorphic site described in the exemplification of the The present invention describes a method for detecting the presence of invention. 

Sequence 700 BP; 145 A; 174 C; 226 G; 151 T; 4 other;

Gaps · 0 Score 18.4; DB 22; Length 700; Pred. No. 1.9e+02; 1; Indels 0; Mismatches 87.6%; 19; Conservative Query Match Best Local Similarity Matches

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ö Ob completed: February 19, 2004, 21:28:32 Search completed: Feb: Job time: 177.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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February 19, 2004, 20:01:08; Search time 1596.5 Seconds (without alignments) 538.116 Million cell updates/sec OM nucleic - nucleic search, using sw model Run on:

US-10-085-108-21\_COPY\_175\_195 21 1 TCATCCTCACCCTTGTCCTCA 21 Title: Perfect score: Sequence:

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

5777422 2888711 seqs, 20454813386 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

GenEmbl:\* Database :

em\_htg\_inv:\*
em\_htg\_other:\*
em\_htg\_mus:\*
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description Li022152 Human DivE136525 Gambusia RC122000 Mus musk RC122000 Mus musk RC0203184 Mus musk RAP003184 Mus musk RC0303184 Mus musk RC0351371 Mus musk RC0351371 Mus musk RC0351371 Mus musk RC0351372 Mus musk RC0351372 Mus musk RC035137 Rattus r RC035137 Rattus r RC035137 Rattus r RC035137 Rattus r RC035137 Rattus r RC03513 Rattus r RC03513 Rattus r RC03513 Homo sap RC03514 Homo sap RC03514 Homo sap RC03514 Homo sap RC03513 Homo sap RC0351 Homo sap RC1551 Ruman DN RC12531 Rattus n RC12531 Rattus n RC12531 Rattus n			æ					
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19         18.4         87.6         1287         9 AF135570         AF136570 Homo set           20         18.4         87.6         2122         9 BC000381         BC0003349         Homo set           21         18.4         87.6         2522         9 AK093365         AK093365         Homo set           22         18.4         87.6         2522         9 AC004512         AC015572	18	18		1283			AF130312 Homo san	۱۰,-
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21         18.4         87.6         2252         9         AK0933459         BC033499         Homo sa           22         18.4         87.6         2522         9         AK0933455         AC019572         AC01957         AC01957         AC01957         AC011953         AC011954         AC011954         AC011954         AC011957         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC011875         AC	20	Н	_	1320	σ	BC000381	BC000381 Homo sap	1-4
22         18.4         87.6         2522         9         AK093365         AK093355         Homo sa           24         18.4         87.6         36774         2         AC019572         AC019572         DC04511         Homo sa           25         18.4         87.6         88442         10         AC005526         AC013569         Human In           27         18.4         87.6         104924         1         AL045609         Muman In           28         18.4         87.6         150916         2         AC119532	.,	18		2252	6	BC033499	BC033499 Homo sap	·t
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28         18.4         87.6         150816         2         ACT19932         ACT19532           29         18.4         87.6         163869         2         AC032030         AC032020           31         18.4         87.6         164946         3         AC012249         AC012249           33         18.4         87.6         164974         3         AC011249         AC011249           34         18.4         87.6         166447         9         AC003841         AC0118751           34         18.4         87.6         168190         9         AC093841         AC093841           35         18.4         87.6         169500         2         AC132291         AC093841           37         18.4         87.6         169500         2         AC132291         AC132291           37         18.4         87.6         174376         3         AC092230         AC132291           40         18.4         87.6         174479         2         AC13561         AC13261           41         18.4         87.6         180520         2         AC136231         AC132623           39         18.4         87.6         18	٧,	2		. 1	2	AL645609	Mouse	NA
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39         18.4         87.6         174479         2         AC135613         AC135613         Pan trop           40         18.4         87.6         178405         9         AC034216         AC034216         AC034216         Homeo sa           41         18.4         87.6         180922         5         AL62716         AL62716         BCbrail           42         18.4         87.6         186135         2         AC129433         AC129433         AC129433         AC129433         AC129443           45         18.4         87.6         186582         2         AC129249         Actrus           45         18.4         87.6         186582         2         AC129249         Actrus	m	18.		7437		AC092230	2230	_
40         18.4         87.6         178405         9         AC034216         AC034216         Homo sa           41         18.4         87.6         180922         5         AL627168         AL627168         Acbraff           42         18.4         87.6         1863580         9         AL160253         AL160253         AL160253         Human         AC129433         AC129433         AC129433         AC129449         AC129249         AC129249         AC129249         AC129249         AC129249         AC129249         AC129249         AC129249         AC129249         Rattus           45         18.4         87.6         18676         AC1292433         AC129249         AC1	m	18.		7447		AC135613	3613 Pan	_
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	45	٠. ھ		170	C)	397	9737 Canis f	E

## ALIGNMENTS

DNA linear PRI 09-MAR-2002 -232G24 on chromosome Xq27.1-27.3 a antigen gene family protein, lanoma antigen, family C,1,		niata; Vertebrata; Euteleostomi; arrhini; Hominidae; Homo.
		nomo Sapienis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 124497)
RESULT 1 HS232G24 LOCUS DEFINITION	ACCESSION VERSION KEYWORDS SOURCE	REFERENCE

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repeat_region
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                                         Libert Submitted (08-MAR-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 15A, UK. E-mail enquiries:

thumquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk

on May 22, 1998 this sequence version replaced gi:2960932.

During sequence assembly data is compared from overlapping clones.

Mere differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following assembly was confirmed by restriction digest. The following
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL, Sw:, SWISSROOT; Tr:, TEMBL, Wp:, WORMPEP; Information on the WORMPEP database can be found at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chromosome X, constructed by the Sanger Centre Chromosome X Mapping Group. Further information can be found at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RP6-232G24 is from the library RPCI-6 constructed by the group of Pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence is the entire insert of clone RP6-232G24 The true right end of clone RP3-326L12 is at 82755 in this sequence. Location/Qualifiers
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/note="LiMC2 repeat: matches 5195. .5546 of consensus"
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/note="LIMC2 repeat: matches 5843. .6246 of consensus"
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note="LiME1 repeat: matches 5914. .6136 of consensus"
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hote="L2 repeat: matches 2574. .2708 of consensus"
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/note="16 copies 2 mer tg 93% conserved"
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/note="14 copies 28 mer 57% conserved"
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note="20 copies 18 mer 59% conserved"
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db_xref="RZPD:RPCIP709G24232"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             http://www.sanger.ac.uk/HGP/ChrX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             clone="RP6-232G24"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'clone_lib="RPCI-6"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /map="q27.1-27.3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     chromosome="X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1969. .2326
/note="179 co
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .. .124497
                             Direct Submission
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VECTOR: pPAC4
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AUTHORS
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                                                     JOURNAL
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                                                                                                                                       COMMENT
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gene="MAGEC1"
oin(11002. .11086,11825. .11922,12078. .12184,12517. .16491)
gene="MAGEC1"
                                                                                                                                                                                                                                                                                                   natch: proteins: Sw:P43363 Tr:Q9BZ80 Tr:O60781 Tr:AAH04105
r:O95529 Tr:Q9R2A2 Sw:O15479 Tr:O89006 Tr:Q9BUN9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DPDNHSYFFEDTLDLTXEGSLIDDQGMPKNCLLILILSMIFIKGSCVPEEVIWEVLSA
IGVCAGREHFIYGDPRKLLTIHWVQRKYLEYREVPNSAPPRYEFLWGPRAHSEASKRS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              translation="MPLFPNLPRLSFEEDFQNPSVTEDLVDAQDSIDEEEEDASSTSS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SSFHFLFPSSSSLSSSPLSSPLPSTLILGVPEDEDMPAAGMPPLPQSPPEIPPQGPP
KISPQGPPQSPPQSPLDSCSSPLLMTRLDEESSSEEEDTATWHALPESESLPRYALDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FSYTLLSLFQSSPERTHSTFEGFPQSPLQIPVSSSSSSTLLSLFQSSPECTQSTFBG
FPQSPLQIPQSPPEGENTHSPLQIVPSLPEWEDSLSPHYFPQSPPQGEDSLSPHYFPQ
SPPQGEDSLSPHYFPQSPQGEDSLSPHYFPQSPPQGEDSMSPLYFPQSPLQGEEFQSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KVAELVQFLLLKYQTKEPVTKAEMLTTVIKKYKDYFPMIFGKAHEFIELIFGLALTDM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'translation="MGDKDMPTAGMPSLLQSSSESPQSCPEGEDSQSPLQIPQSSPES"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QSLLQIPMTSSFSSTLLSIFQSSPESAQSTFEGFPQSPLQIPGSPSFSSTLLSLFQSS
PERTHSTFEGFPQSPLQIPMTSSFSSTLLSILQSSPESAQSAFEGFPQSPLQIPVSSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DDTLYPLQSPQSRSEGEDSSDPLQRPPEGKDSQSPLQIPQSSPEGDDTQSPLQNSQSS
PEGKDSLSPLEISQSPPEGEDVQSPLQNPASSFFSSALLSIFQSSPESTQSPFEGFPQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ERTQSTFEGFAQSPLQIPVSPSSSTLLSLFQSFSERTQSTFEGFAQSSLQIPVSPSF
SSTLVSLFQSSPERTQSTFEGFPQSPLQIPVSSSSSSTLLSLFGSSPERTHSTFEGFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SVLQIPVSAASSSTLVSIFQSSPESTQSPFEGFPQSPLQIPVSRSFSSTLLSIFQSSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note="L1MC3 repeat: matches 7166. .7618 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /gene="MAGEC1"
/note="match: proteins: Sw:060732 Tr:095529 Sw:Q9UBF1
/r:Q96D45 Tr:Q99NC2 Tr:Q99PH7 Sw:Q9Y5V3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /evidence=not_experimental
/product="dA232624.1 (Melanoma antigen gene family
protein, MAGEC3)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'evidence=not experimental
'product="dA232624.2 (Melanoma antigen gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               product="dA232G24.2 (Melanoma antigen gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            repeat: matches 47. .261 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       match: ESTs: Em:AI652057 Em:AL1221366 Em:AI126114
Em:BG480822"
                                                                                                                                                   3876. 3959
/note="7 copies 12 mer 72% conserved"
4027. 4110
/note="7 copies 12 mer 88% conserved"
complement (5293. .5441)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /evidence=not_experimental
complement(11962. 12298)
/note="match: GSS: Em.AQ064665"
join(12181. .12184,12517. .15941)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'note="match: cDNAs: Em:AF056334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       complement (5293. .5441)
note="match: GSS: Em:AQ060261"
protein, MAGEC3)"
/note="(possible pseudogene)
match: cDNAs: Em:AFI51378
                                                                                                                                                                                                                                                                       /note="(possible pseudogene)
match: proteins: Sw:P43363 T;
                                                                                                                          evidence-not_experimental
                                                                                       : ESTS: Em:BI460078"
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/db_xref="G1:20095260"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /protein_id="CAA18146.1"
/db_xref="GI:3150087"
                                                                                                                                                                                                                                        gene="dA232G24.1"
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                                                                                                                                                                                                                                                                                                                                                                                              codon_start=1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6422. .6624
/note="MIR r
8315. .8700
                                                                                                                                                                                                              .4801
                                                                                                                                                                                                                                                                                                                                                               r:096M61"
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Texas A&M

Submitted (23-MAR-1999) Wildlife and Fisheries Sciences, Te University, 210 Nagle Hall, College Station, TX 77843, USA Location/Qualifiers

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FEATURES

organism="Gambusia affinis"

. .1677

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Gaps

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HTG 27-MAR-2003

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'note="MLT1B repeat: matches 1. .390 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="MIR repeat: matches 11, .261 of consensus"
19287. .19670
                                                                                                                                                                                                     /note="13 copies 6 mer tcctcc 67% conserved"
12675. .12752
/note="2 copies 39 mer 89% conserved"
                                                                                                                                                                                                                                                                                                        note="10 copies 105 mer 94% conserved"
                                                                                                                                                                                                                                                                                                                                                                      /noce="5 copies 48 mer 84% conserved"
14039. 14266
/noce="19 copies 12 mer 58% conserved"
1417. 1417. 1418
/noce="2 copies 45 mer 100% conserved"
14455. 14742
                                                                                                                                                                                                                                                                                                                          13844, .14719
note="2 copies 438 mer 82% conserved"
14023, .14262
                                                                                                                                                                                                                                                                                                                                                                                                                                                           14455. .14742
/note="24 copies 12 mer 56% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4683. .14997
note="3 copies 105 mer 86% conserved"
                                                                                                                                                    12417. .12500
/note="7 copies 12 mer 70% conserved"
12420. .12497
                                                                                                                                                                                                                                                       12721. .12912
/note="4 copies 48 mer 88% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .4480. .14719
note="5 copies 48 mer 89% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note="2 copies 51 mer 99% conserved".5169. .15222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note="3 copies 18 mer 88% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14948. .15049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7466. .17718
                                                                                                                                                                                                                                                                                          2928. .13977
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0 ; 0 100.0%; Score 21; DB 9; Length 124497; 100.0%; Pred. No. 67; 0; Indels Mismatches 1 TCATCCTCACCCTTGTCCTCA 21 0; 21; Conservative Best Local Similarity Query Match Matches ð

3935 TCATCCTCACCCTTGTA 3955

RESULT 2 AF136525/c LOCUS DEFINITION ORGANISM ACCESSION VERSION KEYWORDS SOURCE

Gambusia affinis RAPD band OPDZsub(1560) sequence.
AF136525.1 GI:5019775

Gambusia affinis

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;
Cyprinodontiformes; Poeciliidae; Gambusia.

REFERENCE

1.7 (bases 1 to 1677)
Theodorakis, C.W. and Bickham, J.W.
Molecular characterization of contaminant-indicative RAPD markers:
homology between species, DNA sequence, and development of
marker-specific primers 2 (bases 1 to 1677)
Theodorakis, C.W. and Bickham, J.W.
Direct Submission Unpublished AUTHORS TITLE JOURNAL REFERENCE

AUTHORS TITLE

Discrete to 164601)

Si (Dases I to 164601)

Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Baetien, V., Bloom, T., Boguslawkiy, L., Boukhgalter, B., Brown, A., Camarata, J. Campopiano, A., Chang, J., Chazaro, B., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., DeArellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzGerald, M., FitzHugh, W., Gage, D., Galdgan, J., Gardyna, S., Ginde, S., Govd, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Landers, T., Lehoczky, J., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., Macdonald, P., Major, J., Marquis, N., Mathews, C., McCarthy, M., McEwan, P., McKernan, K., Meldrim, J., Marcl, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Retta, R., Rieback, M., Riley, R., Ries, C., Schupback, R., Seaman, S., Severy, P., Spencer, B., Stange-Thomann, N., Stouback, S., Samen, S., Severy, P., Spencer, B., Stange-Thomann, N., Vassillev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Voung, G., Zalnoun, J., Zambek, L., Zimmer, A. and Zody, M. AC125000 164601 bp DNA linear HTG 27-MAR-2003 Mus musculus clone RP24-409L6, WORKING DRAFT SEQUENCE, 8 unordered Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. Submitted (20-UNW-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA (basearch, 320 Charles Street, Cambridge, MA 02141, USA (basearch, 320 Charles Street, Cambridge, MA 02141, USA (basearch, Nusbaum,C., Lander,E., Abouelleil,A., Allen,N., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T., Boughslarkiy,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,X., Collymore,A., Cook,A., Cooke,P., Corum,B., DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S., Farreira,P., FitzGerald,M., Gage,D., Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafgopian,D., Hagos,B., Hall,J., Horton,L., Hullme,M., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R., ch
1 Similarity 100.0%; Pred. No. 3.4e+02;
20; Conservative 0; Mismatches 0; Indels 2 others HTG; HTGS\_PHASE1; HTGS\_DRAFT; HTGS\_FULLIOP. /note="RAPD band OPD2sub(1560)" 512 t 1 (bases 1 to 164601)
Birren, B., Nusbaum, C. and Lander, E.
Mus musculus, clone RP24-409L6 /mol\_type="genomic DNA" /db\_xref="taxon:33528" 1. ..1677 335 g 1518 TCATCCTCACCTTGTCCTC 1499 1 TCATCCTCACCCTTGTCCTC 20 Mus musculus (house mouse) AC125000 AC125000.3 GI:29294292 269 c Young, G., Zainoun, Direct Submission Mus musculus Query Match Best Local Similarity Unpublished 559 a misc feature KEYWORDS SOURCE ORGANISM BASE COUNT DEFINITION ACCESSION VERSION Matches REFERENCE AUTHORS RESULT 3 AC125000 TITLE JOURNAL REFERENCE AUTHORS JOURNAL REFERENCE ORIGIN à g VRT 09-JUN-1999 Gambusia affinis (western mosquitofish)

'note="assembly\_fragment"

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Lindblad-Toh,K., Liu,G., Lui,A., Mabbitt,R., MacLean,C.,
Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M.,
Meldrin,J., Meneus,L., Mihova,T., Mlanga,V., Murphy,T., Naylor,J.,
O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N.,
Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P.,
Roman,J., Schauer,S., Schupback,R., Seaman,S., Severy,P., Smith,C.,
Spencer,B., Stange-Thoman,N., Stojanovic,N., Stubbs,M.,
Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M.,
Varsiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X.,
Direct Submission
                                                                                                                                                                                                                                                                                                                                                     Submitted (27-MAR-2003) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA ON MAR 27, 2003 this sequence version replaced gi:28191558.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center: Whitehead Institute/ MIT Center for Genome Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Center clone name: 409_L.6
Sequencing vector: Plasmid; n/a; 100% of reads
Sequencing vector: Plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consents quality: 163739 bases at least Q40
Consents quality: 16377 bases at least Q20
Insert size: 15300; agarose-fp
Insert size: 163901; aum-of-contigs
Quality coverage: 11.4 in Q20 bases; agarose-fp
Quality coverage: 10.7 in Q20 bases; sum-of-contigs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NOTE: This is a 'working draft' sequence. It currently consists of 8 contigs. The true order of the pieces is not known and their order in this sequence record is
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13730: contig of 4045 bp in length
13830: gap of 100 bp
32078: contig of 18248 bp in length
32178: gap of 100 bp
78827: contig of 46649 bp in length
78927: gap of 100 bp
106867: contig of 27940 bp in length
106967: gap of 100 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: sequence_submissions@genome.wi,mit.edu
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136463: gap of 100 bp
164601: contig of 28138 bp in length.
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gap of 100 bp
contig of 3615 bp in length
gap of 100 bp
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/clone lib="RPCI-24 Male Mouse BAC"
1. .5870
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5971. _9585
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misc feature

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Direct Submission
Submitted (07-0CT-2000) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Oct 7, 2000 this sequence version replaced gi:5757519.
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Submitted (21-AUG-1999) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MD 63108, USA
4 (bases 1 to 174412)
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 17442)
Sulston, J. E. and Waterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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HOMO sapiens BAC clone RP11-459K11 from 2, complete sequence.
AC009413
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                                                                                                                                                                                                                                                                                                                                                  Score 1...
Pred. No. 3e+02;
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Le,T., Drone,K. and Du,F.
The sequence of Homo sapiens BAC clone RP11-459K11
                                                                                                                                                                                                                                                                                     700 others
                                                                                                                                                                                                                                                                                                                                              92.4%; Score 19.4; DB 2;
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Contact: sapiens@watson.wustl.edu
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45950 a 37019 c 36895 g 44037 t
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106968. .136363

/note="assembly_fragment"

136464. .164601

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                                     13831, .32078 /
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9686. .13730 /note="assembly_fragment"
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Waterston, R.H.
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This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats, all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by restriction digest.

# MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see http://genome.wustl.edu/gec

The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Catanese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong (http://bacpac.med.buffalo.edu)

The clone sequenced to the right is RPI1-478M12, 200 base pair overlap. Actual start of this clone is at base position 1 of RPI1-459X11; actual end is at base position 174218 of RPI1-459X11. NEIGHBORING SEQUENCE INFORMATION:

# FEATURES

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1973. .2174
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2482. .2798
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1. .174412
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/note="similar to EST AA888358 (NID:g3004033) nw79a02.s1"

repeat\_region

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   note="match to EST AI028214 (NID:g3245523) ov96c05.xl" 3525. .13827
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. 14176 . .14231
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                                                                                                              |620_ .9624
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17090 ......
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9281. 10F7-
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1982. .22286
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2451. .12460
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6832, .16980
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1599. 21725
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1 TCATCCTCACCCTTGTCCTCA 21
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Best Local Similarity 95.2%
Matches 20; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                       AC122284 194991 bp DNA linear HTG 23-MAY-2002 Mus musculus chromosome UNK clone RP23-246A5, WORKING DRAFT SEQUENCE, 14 unordered pieces.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Direct Submission
Submitted (23-MAY-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 194991)
M.Pherson, J.D. and Materston, R.H.
                /note="match to EST AA663026 (NID:g2617017) ab72a10.s1"
24720. .25073
                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * NOTE: This is a 'working draft' sequence. It currently consists of 14 concigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                          92.4%; Score 19.4; DB 9; Length 174412; 95.2%; Pred. No. 3e+02; 1.ve 0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chemistry: Dye-primer ET; 0% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 190912 bases at least 040
Consensus quality: 192510 bases at least 020
Consensus quality: 19357 bases at least 020
Insert size: 204000, agarose-fp
Insert size: 195984; sum-of-contigs
Quality coverage: 11.70 in Q20 bases; sum-of-contigs
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Sequencing vector: plasmid; 100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Web site:http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1173: contig of 1173 bp in length
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                                                                                                                                                                                                                                                                                    121530 TCATCCTCACCCTTGTCCCCA 121510
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HTG; HTGS PHASE1; HTGS DRAFT.
Mus musculus (house mouse)
                                               /rpt_family="Malk"
26879 . .27174
/rpt_family="Alu"
27212 . .27516
/rpt_family="Alu"
27555 . .27718
                                                                                                                                                                                                                                                              1 TCATCCTCACCCTTGTCCTCA 21
                                                                                                                                                        /rpt_family="MIR"
   24110. .24377
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                                                                                                                                                                                                                             20; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
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Best Local Similarity
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misc_feature
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AC122284/c
                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
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JOURNAL
REFERENCE
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JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
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0; Gaps
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                                                                                                                                                                                                                                                         gap of unknown length
scontug of 9038 bp in length
scontug of 14060 bp in length
scontug of 14060 bp in length
seap of unknown length
contug of 12091 bp in length
gap of unknown length
contug of 23989 bp in length
contug of 55079 bp in length
gap of unknown length
scontug of 55079 bp in length
gap of unknown length
                                                                                                                                      gap of unknown length
contrig of 2976 bp in length
app of unknown length
contrig of 3414 bp in length
gap of unknown length
contrig of 7430 bp in length
gap of unknown length
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                                  contig of 1163 bp in length
gap of unknown length
contig of 1306 bp in length
gap of unknown length
contig of 1366 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        contig of 59549 bp in length
bp in length
                     length
bp in length
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note="assembly_name:Contig60"

20686._.29723

/note="assembly_name:Contig61"
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/note="assembly_name:Contig65"
135443...194991 name:Contig66"
/note="assembly_name:Contig66"
1 42930 c 41683 g 53332 t
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/note="assembly_name:Contig47"
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'note="assembly_name:Contig57"
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/note="assembly_name:Contig62"
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/note="assembly_name:Contig64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note="assembly_name:Contig9"
                     unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="genomic DNA
/db_xref="taxon:10090"
contig
gap of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'clone="RP23-246A5"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vector side:left"
13156. .20585
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RESULT 6 AP003184/c DEFINITION

ORGANISM

SOURCE

REFERENCE AUTHORS JOURNAL AUTHORS REFERENCE

TITLE

ACCESSION VERSION KEYWORDS TITLE JOURNAL

COMMENT

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Submitted (28-MAY-2003) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA On May 28, 2003 this sequence version replaced gi:22830432.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                  Submitted (07-SEP-2002) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA (bases 1 to 127623)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           arbitrary Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     * NOTE: This is a 'working draft' sequence. It currently consists of 2 contigs. The true order of the pieces is not known and their order in this sequence record is
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Center code: WUGSC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chemistry: Dye-primer ET; 0% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.993319
Consensus quality: 12679 bases at least Q40
Consensus quality: 126819 bases at least Q30
Consensus quality: 126834 bases at least Q20
Insert size: 134000; agarose-fp
Insert size: 127523; sum-of-contigs
Quality coverage: 13.21 in Q20 bases; sum-of-contigs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 56481: contig of 56481 bp in length
56482 56581: gap of unknown length
56582 127623: contig of 71042 bp in length.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequencing vector: M13; 0% Sequencing vector: plasmid; 100%
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                                                                                                                                                                                                                                                                                                                                                                                            misc_feature 56582. 127623.
/note="assembly_name:Contig23"
BASE COUNT 34958 a 24419 c 25165 g 42981 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="assembly_name:Contig22"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Preq. ...
          2 (bases 1 to 127623)
McPherson, J.D. and Waterston, R.H.
Direct Submission
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                                                                                                                                                                                                                                                                                                                      Genome Center
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/db_xref="taxon:10090"
/chromosome="UNK"
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                                                                                                                                                        Wilson, R.K.
Direct Submission
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                                                                TITLE
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             REFERENCE
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                                                                                                                                        REFERENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (09-FEB-2001) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22 Suehiro-chou, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:hattori@gsc.riken.go.jp, Withttp://hgp.gsc.riken.go.jp/, 7e1:81-45-503-9111, Fax:81-45-503-9170) On Oct 19, 2001 this sequence version replaced gi:15208269.
This work was done in collaboration with Suda, C., Shirohzu, H. and
                                                                                                                                                             ROD 20-OCT-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Published Only in Database (2001)
2 (bases 1 to 110807)
Hattori,M., Kato,R., Toyoda,A., Taylor,T.D., Fujiyama,A., Yada,T.,
Totoki,Y., Watanabe,H. and Sakaki,Y.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                            Hattori,M., Kato,R., Toyoda,A., Taylor,T.D., Fujiyama,A., Yada,T.,
Totoki,Y., Watanabe,H. and Sakaki,Y.
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
1 (bases 1 to 127623)
Wilson,R.K.
                                                                                                                                                        AP003184 110807 bp DNA linear ROD 20-OC3
Mus musculus genomic DNA, chromosome 7 clone:B27118, complete
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AC133171.4 GI:31088442
HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_ACTIVEFIN.
Mus muscu<u>l</u>us (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90.5%; Score 19; DB 10; L
100.0%; Pred. No. 4.8e+02;
cive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1-111, Yata, Mishima, Shizuoka, JAPAN
zip: 411-8540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="7"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           e-mail: hisasaki@lab.nig.ac.jp.
Location/Qualifiers
1. .110807
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83556 TCCTCCTCACCCTTGTCCTCA 83536
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                                                                                                                                                                                                                                                                                                              Mus musculus (house mouse)
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                                                                                                                                                                                                                                                           AP003184.2 GI:16303287
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Best Local Similarity
-hes 19; Conserve
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BASE COUNT

FEATURES

SOURCE ORGANISM

KEYWORDS

TITLE JOURNAL

REFERENCE AUTHORS

DEFINITION

AC133171

RESULT 7

ACCESSION

ACCESSION

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RS MIRIN,D. Marie., Metaker,M. Lee., Abramzon,S., Adams,C., Alder,J., Angulaho, B., Allen,C., Alberooks,S., Amin,A., Angulaho,D., Anyalebechi,V., Bonderanake,D., Barboroks,S., Amin,A., Angulaho,D., Bendaranake,D., Barboroks,S., Amin,A., Angulaho,D., Bendaranake,D., Barborok,S., Barnetead,W., Benahmed,F., Biswalo,K., Bladken,D., Barnetead,W., Benahmed,F., Biswalo,K., Bladker,D., Barter,D., Barnetead,W., Benahmed,F., Biswalo,K., Bladker,D., Barter,D., Chang,C., Charler,D., Chavez,D., Chavez,D., Chavez,D., Charler,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Chavez,D., Darder,D., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya, K., Deramo,C., Ding,Y., Dinh,H., Divya, K., Deramo,C., Ding,Y., Dinh,H., Divya, R., Deramo,C., Ding,Y., Dinh,H., Divya, R., Deramo,C., Ding,Y., Dinh,H., Paya, R., Deramo,C., Ding,Y., Dinh,H., Paya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinh,H., Divya, R., Dinhon,H., Manday,H., Dindon,H., Dinhon,H., Manday,H., Dinhon,H., Dinhon,H., Manday,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H., Dinhon,H.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (15-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
                                                                                                                                                          Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae;
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On Nov 15, 2002 this sequence version replaced gi:23195506.
                                                          HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED.
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Rat Genome Sequencing Consortium.
                                                                                                   Rattus norvegicus (Norway rat)
AC120654
AC120654.4 GI:25008188
                                                                                                                                                                                                                                                              (bases 1 to 168135)
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                                                                                                                               Rattus norvegicus
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                                                                                         SOURCE
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JOURNAL
                              VERSION
KEYWORDS
                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                             AUTHORS
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The sequence in this assembly is a combination of BAC based reads and whole genome shorgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.ed/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence enals will be indicated in the feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
NOTE: This is a 'working draft' sequence. It currently
consists of 3 contigs. The true order of the pieces
is not known and their order in this sequence record is
arbitrary. Gaps between the contigs are represented as
runs of N, but the exact sizes of the gaps are unknown.
This record will be updated with the finished sequence
as soon as it is available and the accession number will
be preserved.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Assembly program: Phrap, version 0.990329
Consensus quality: 13795 bases at least Q40
Consensus quality: 155395 bases at least Q30
Consensus quality: 155395 bases at least Q30
Consensus quality: 15553 bases at least Q30
Consensus quality: 155543 bases at least Q20
Estimated insert size: 154483; sum-of-contigs estimation
Q20 buality coverage: 6x in Q20 bases; sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NOTE: Estimated insert size may differ from sequence length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 7528: contig of 7528 bp in length
7529 7628: gap of unknown length
7629 165839: contig of 158211 bp in length
165840 165939: gap of unknown length
165940 168135: contig of 2196 bp in length.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
------ Project Information
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                                                                                                                                                                                                                                                                                                                                                                                                     Center: Baylor College of Medicine Center code: BCM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Rattus norvegicus"
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Matches 19; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Center clone name: CH230-389M12
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/note="wgs_end_extension
clone_nd:T7"
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/db_xref="taxon:10116"
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/note="clone_boundary
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Narapy, Darate, Netzaker, M. Lee., Abramzon, S., Adams, C., Alder, J., Anyalaharie, Mezzaker, M. Lee., Abramzon, S., Adams, C., Allen, H., Alabooks, S., Amin, A. Angulano, D., Allen, C., Anyala, A., Angoleji, M., Baca, E., Baden, H., Balden, C., Bandaranake, D., Barber, M., Barnetead, M., Benahmed, F., Biswalo, K., Bandaranake, D., Barber, M., Barnetead, M., Benahmed, F., Biswalo, K., Bandar, C., Barnete, J., Carer, C., Cavala, C., Cayla, M., Cree, D., D'Gouza, L., Davila, M., Cree, D., Denson, S., Carer, C., Coyla, M., Cree, D., D'Gouza, L., Davila, M., L., Davis, C., Corden, C., Coyla, M., Cree, D., Dousa, L., Davila, M., L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Dersmo, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Dinh, H., Divya, K., Draper, C., Ding, Y., Hanlak, P., Haves, A., Hanlak, P., Hanlak, P., Hawes, A., Hanlak, P., Hanlak, P., Hawes, A., Hanlak, P., Hanlak, P., Hawes, A., Hanlak, P., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hanlak, P., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Hawes, A., Haw
                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
                                                                                                                                                             AC095135
263262 bp DNA linear HTG 09-MM Rattus norvegicus clone CH230-8C1, WORKING DRAFT SEQUENCE, 4
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Rattus norvegicus
67161 cárccrcácctricrccrc 67143
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Worley, K.C.
Direct Submission
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Submitted (19-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On May 9, 2003 this sequence version replaced gi:24940774.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgac.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold', individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence reads. Both end sequences and whole genome table.
Submitted (16-SEP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Paylor Plata, Houston, TX 77030, USA 3 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263262) 1 (bases 1 to 263622) 1 (bases 1 to 263622) 1 (bases 1 to 263622) 1 (bases 1 to 263622) 1 (bases 1 to 263622) 1 (base
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* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)

* NOTE: This sequence may represent more than one clone.

* NOTE: This is a 'working draft' sequence. It currently

* consists of 4 contigs. The true order of the pieces

* is not known and their order in this sequence record is
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Consensus quality: 241500 bases at least Q30
Consensus quality: 242534 bases at least Q30
Estimated insert size: 261225; sum-of-contigs estimation
Quality coverage: 10x in Q20 bases; sum-of-contigs estimation
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1248 17347: gap of unknown length
1348 20718: contig of 3371 bp in length
1719 20818: gap of unknown length
1819 260812: contig of 239994 bp in length
1813 260912: gap of unknown length
1913 263862: contig of 2350 bp in length
10cation/Qualifiers
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Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
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Center clone name: CH230-8C1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ROD 10-FEB-2001
                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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                                                          Mus musculus chromosome 7, clone RP23-92L23, complete sequence.
AC012382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Research, 320 Charles Street, Cambridge, MA 02141, USA On Feb 10, 2001 this sequence version replaced gi:10280830. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             http://ftp.genome.washington.edu/RM/RepeatMasker.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: sequence submissions@genome.wi.mit.edu ------ Project Information
                                                       linear
                                                                                                                                                                                                                                                                          Birren, B., Linton, L., Nusbaum, C. and Lander, E. Mus musculus chromosome 7, clone RP23-92L23 Unpublished
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                                                       DNA
                                                       276523 bp
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                                                                                                                      AC012382.14 GI:12740210
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TITLE

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note="Unresolved tandem repeat; possibly missing 50 bp
                                                                                  clone="RP23-92L23"
clone_lib="RPCI-23 Female Mouse BAC"
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9591. .9642 / rpf. family="(CCA)n"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note="probably C, possibly A"
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/note="<30 qual SNGL region"
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/note="<30 qual SNGL region"
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                                                                                                                            /rpt_family="B1 MM"
complement(82. 1042)
/rpt_family="Lx9"
complement(1633. 1847)
/rpt_family="B3"
complement(2088. .2150)
[. .276523
organism="Mus musculus"
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complement(9189, 9520)
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/rpt_family="ORRID"
6031. .6199
                                                                                                                                                                                                   rpt_family="MLT2B2"
161. 226.
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5489. .5504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   complement(9898. .10110)
/rpt_family="B3"
                          /mol_type="genomic DNA"
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7539. .17797
                                                                                                                                                                                                                                 /rpt_family="(TAGA)n"
2295. .2441
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17839. .17893
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/rpt_family="(A)n"
2490. .2648
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.6328. .16364
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complement (5226. .54
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298. .3587
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8605. .3653
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complement(6257.
                                                       chromosome="7"
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3839_ 100F
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         /rpt_femmily="Libra".
complement(28667. 28773)
/rpt_femmily="PB1D7".
complement(29577. 29851)
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/rpt_femmily="Lx9".
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complement(27906, 28013)
/rpt_family="B4A"
complement(28114, 28643)
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complement (33204. .33502)
/rpt_family="MTD"
complement (35717. .35931)
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/rpt_family="(CAGAGA)n"
22630. 23038
/rpt_family="Lx4"
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complement(36335. .36679)
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23040. .23073
/rpt_family="(CAAAA)n"
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/rpt_family="(TCCA)n"
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/rpt_family="CT-rich"
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}2902, 3717
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5089. .25140
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12026. .32047
                                                 rpt_family="F
9042. .19337
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BD077670 321 bp DNA linear PAT 27-AUG-2002 5.EST of secreted protein expressed in muscles and other mesodermal ED077670.

DEFINITION RESULT 11 BD077670

ACCESSION

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Gaps ö

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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

1 (bases 1 to 321)

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2 (bases 1 to 321)

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5 (EST of secreted protein expressed in muscles and other mesodermal
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                                                                                          Patent: JP 2001512016-A 256 21-AUG-2001;
GENSET
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                                                                                                                 Homo sapiens (human)
JP 201512016-A/256
21-AUG-2001
31-JUL-1998 JP 2000505295
01-AUG-1997 US 08/905134
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score 6.6
seg LILVLQLLLRIRR/NR
BD077670.1 GI:22623273
JP 2001512016-A/256.
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REFERENCE
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SOURCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (24-JUL-1998) Takeshi K Watanabe, Otsuka Pharmaceutical Co., Ltd., Otsuka GEN Research Institute; 463-10, Kagasuno, Kawauchi-cho, Tskushima, Tokushima 771-0192, Japan (E-mail:watanabe@otsuka.genome.ad.jp, Tel:81-886-65-2888, Pax:81-886-37-1035)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
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Watanabe,T.K., Hishigaki,H., Kanemoto,N., Miyakita-Mizoguchi,A.,
Oga,K., Okuno,S., Ono,T., Tsuji,A., Hayashi,H., Adachi,M.,
Yamasaki,Y., Iriye,Y., Takahashi,E., Takagi,T., Nakamura,Y. and
                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rattus norvegicus, OTSUXA clone, OT8.04/02242, microsatellite sequence, sequence tagged site.
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/db_xref="taxon:10116"
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0T8.04/02242R=5'-AATTCCACCATACAAGCTAAAGTCA-3'"
99 c 172 g 161 t 11 others
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Pred. No. 1.9e+03;
0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The large scale mapping of rat microsatellite markers Unpublished
                                                                                                                                                                                                                                                                                                           DB 6; Length 321;
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Location/Qualifiers
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                                                                                                                                                                                                                  /organism="Homo sapiens"
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/db_xref="taxon:9606"
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Watanabe, T.K.
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Vicieae;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Plant Mol. Biol. 5, 41-53 (1985)
Original source text: Broad bean (V.faba) seed (embryonic axes) DNA.
                                                                                                                                                                                                                                                                                Daly, M., Hudson, T.J., Lander, E.S., Rioux, J. and Siminovitch, K.
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Broad bean (V.faba) BamHI repetitive element, 990 bp family.
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Patent: WO 0142511-A 1199 14-JUN-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US) ; Ellipsis
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Location/Qualifiers
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260 c 185 g
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317 CACCTCACCTTGTCTCA 298
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Vicia faba (fava bean)
Vicia faba
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BamHI site.
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1 TCATCCTCACCCTTGTCCTC 20

Gaps

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2 CATCCTCACCCTTGTCCTCA 21

19; Conservative

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PRI 17-FEB-1999
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GKVLMKLRKPRITATIWSSGKIICTGATSEEBAKFGARRLARSLQKLGFQVIFTDFKV
VNVLAVCNMPPEIRLPEFTKNNRPHASYEPELHPAVCYRIKSLRATLQIFSTGSITVT
                                                                                                                                                                                                                                                                                                                               Obbayashi,T., Kishimoto,T., Makino,Y., Shimada,M., Nakadai,T., Aoki,T., Kawata,T., Niwa,S. and Tamura,T. T. Kawata,T., Niwa,S. and Tamura,T. Tokidation of cDNA, chromosome mapping, and expression of the human TBP-like protein.

Blochem. Blophys. Res. Commun. 255 (1), 137-142 (1999)
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Dibayashi,T., Kishimoto,T., Makino,Y. and Tamura,T.
Direct Submission
Submitted (07-DEC-1998) Toshihiko Kishimoto, Sumitomo Electric
Industries, Biomedical R&D Dept.; 1, Taya-cho, Sakae-ku, Yokohama,
Kanagawa 244-8589, Japan (E-mail:tkishmt@opele.sei.co.jp,
Tel:81-45-853-7275, Fax:81-45-853-3528)
                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                  аноговят 1227 bp mRNA linear P
Homo sapiens mRNA for TBP-like protein, complete cds.
AB020881
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/note="TLP"

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/db_xref="GI:4579753"
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/chromosone="6"

/map="6422.1-22.3"

223. .783
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247 c 254 g 36
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Homo sapiens
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Search completed: February 19, 2004, 22:22:00 Job time : 1601.5 secs

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(without alignments)
323.010 Million cell updates/sec
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| SIDSI|gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*
                                                                                                                                                                                                         February 19, 2004, 19:59:22; Search time 175.5 Seconds
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2552756 segs, 1349719017 residues
                                                                                                                                                                                                                                                                                                                                                          US-10-085-108-21_COPY_175_195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                         - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                       21
1 TCATCCTCACCCTTGTCCTCA 21
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Maximum DB seq length: 2000000000
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                                                                                                                                         OM nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                Run on:
                                                                                                                                                                                                                                                                                                                                                          Title:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Dogramma	TOTAL TOTAL	Human MAGE-C3 expr	Human breast cell	Human foetal liver	Probe #14582 for g	Human brain expres	Human bone marrow	Probe #14004 for g	Probe #18053 used
SUMMARIES		C L		ABX95021	ABA51188	ABA69192	ABA36116	AAK1 7490	AAK43299	AAI24071	AA149367
		5	1	25	22	22	22	22	22	22	22
		Query	ייייי היייי	21	424	424	424	424	424	424	424
	ж	Query	ווטרטוו -	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		0	יייייי	21	21	21	21	21	21	21	21
		Result		٦	7	ω	4		9	. 7	80
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(LUCA/) LUCAS S. (BOON/) BOON-FALLEUR T.

Probe #9642 used thuman liver single Human genome-deriv CDNA encoding huma DNA encoding novel Human inflammatory Human colon cancer Human colon cancer Human colon cancer Human colon cancer Human colon encoding Human novel polynu Protein regulating Human novel peptidase 2 CDNA encoding a hu DNA encoding novel Human MBP-calretic 1.9 kb Ro (Ro/SSA) Human calreticulin DNA encoding human Human calreticulin Human DNA sequence Human MDP-calretic Human more alreticulin DNA encoding dene #1542 used to Human foetal liver Probe #4019 for ge Human bone marrow Probe #4214 used t	#3982 liver genome
AAI09651 ABS42926 ABS42926 AAS88354 AAS88354 AAA93187 AAH93187 AAH93187 AAA57350 AAA5737667 AAA093466 AAA09347 AAA093173 ABA75119 AAA09346	129
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 23 24
424 424 424 1041 1041 7806 7301 7301 7301 1125 1125 1125 1125 1125 1125 1125 11	4 4 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
01110110000000000000000000000000000000	000
100 100 100 100 100 100 100 100 100 100	4 4 4 6 4 6
000 0 000000000000000000000000000000000	000

### ALIGNMENTS

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TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL; tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor; head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma; cutaneous melanoma; nonsmall cell lung cancer; RT-PCR; primer; MAGE-C3;
                                                                                                  Human MAGE-C3 expression pattern anlaysis RT-PCR sense primer.
                       ABX95021 standard; DNA; 21 BP
                                                                                                                                                                                     human; reverse transcription.
                                                                                                                                                                                                                                                                                                                     09-FEB-2000; 2000US-0501104.
25-APR-1997; 97US-0845528.
24-APR-1998; 98US-0066281.
17-DEC-1999; 99US-0468433.
                                                                                                                                                                                                                                                                                             01-MAR-2002; 2002US-0085108.
                                                                           05-JUN-2003 (first entry)
                                                                                                                                                                                                                                          US2002176865-A1.
                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                               24-APR-1998;
17-DEC-1999;
                                                                                                                                                                                                                                                                   28-NOV-2002
                                                  ABX95021;
RESULT 1
         ABX95021
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The invention relates to an isolated nucleic acid molecule which encodes a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-C3, or MAGE-B6 polynucleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human leukocyte antigen (HTA) and a peptide derived from the nucleic acid in a cytotxic T-lymphocyte (CTL)-containing sample. The nucleic acid in a cytotxic T-lymphocyte (CTL)-containing sample. The nucleic acid in a cytotxic T-lymphocyte (CTL)-containing sample. The nucleic acid is useful as a diagnostic probe to determine the presence of abnormal cumour) cells such as seminoma, bladder transitional-cell carcinoma, head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma, cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPs or tumour rejection antigens (TRAs). The present sequence represents the human MAGE-C3 expression pattern anlaysis reverse transcription (RT)-PCR
                                                                                   Novel isolated nucleic acid encoding tumor rejection antigen precursor MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; microarray; single exon probe; gene expression; breast;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human breast cell single exon nucleic acid probe #9883.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
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                                                                                                                                                                                 Example 12; Page 13; 59pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0632366.
2000US-0234687.
2000US-0236359.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0207456.
2000US-0608408.
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Les 21; Conservative
               Boon-Falleur T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease; cancer; ss.
                                                      WPI; 2003-328468/31
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21-SEP-2000;
27-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sense primer.
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30-JUN-2000;
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                 Lucas S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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from human breast and BT 474 cells. The method involves contacting the probes with a collection of detectably labelled uncleic acids derived from human breast, and then measuring the labelle ducleic acids derived from mRNA of human breast, and then measuring the label bound to each probe of the microarray. The probes are useful for verifying the expression of regions of genomic DNA predicted to encode proteins. They are useful for gene discovery, and for determining predisposition and/or prognosing breast disease. Gene expression analysis is useful for assessing the toxicity of chemical expression analysis is useful for assessing the toxicity of chemical captures on cells. The microarray of this invention presents a far greater diversity of probes for measuring gene expression, with far less bias than expressed sequence tag microarrays. The method is suitable for rapid production of functional information from genomic sequence. The present sequence is a single exon nucleic acid probe of the invention. Note: The sequence data for this patent did not form part of the presents expression, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                        The invention relates to a spatially-addressable set of single exon
                                                         derived from human
                             New spatially-addressable set of single exon nucleic acid probes, useful for measuring gene expression in sample derived from humar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human genome-derived single exon nucleic acid probes useful for
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                                                             useful for measuring gene expression in sample derived from
breast, comprises number of single exon nucleic acid probes
                                                                                                                    Claim 4; SEQ ID NO 9883; 327pp + sequence listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human foetal liver single exon nucleic acid probe #17497.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
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26-MX-2000; 2000US-0207456.
30-UJN-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234687.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-483447/52.
WPI; 2001-496933/54.
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ABA69192/c
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analyzing gene expression in human fetal liver -

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measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system
                                                              The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid nrows in invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Single exon nucleic acid probes for analyzing gene expression in human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Probe #14582 for gene expression analysis in human heart cell sample.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; gene expression; heart; microarray; vascular system; probe; cardiovascular disease; hypertension; cardiac arrhythmia;
                                                                                                                                                                                                                                                                                 100.0%; Score 21; DB 22; Length 424; 100.0%; Pred. No. 16;
                                 Claim 4; SEQ ID NO 17497; 639pp + sequence listing; English.
                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                              Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                    0; Mismatches
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30-UNA-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234687.
04-OCT-2000; 2000GB-0024263.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           congenital heart disease; ss.
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Les 21; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-488899/53
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             congenital heart disease.
Note: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human brain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatment of nervous system diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, epilepsy and cancers. The present sequence is one of the probes of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single exon nucleic acid probes for analyzing gene expression in human
                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                           Human; brain expressed exon; gene expression analysis; probe; microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
cardiovascular disease, hypertension, cardiac arrhythmias and
                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 4; SEQ ID NO: 17481; 650pp + Sequence Listing; English.
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0
                                                                                                                           100.0%; Score 21; DB 22; Length 424; 100.0%; Pred. No. 16;
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                                                                                                                                                                                                                                                                                                                                                                                              Human brain expressed single exon probe SEQ ID NO: 17481
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                                                                                          Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
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                                                           ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                         0; Mismatches
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ID AAK17490 standard; DNA; 424 BP.
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21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
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2000US-0608408.
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                                                                                                                   Query Match
Best Local Similarity 100.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              epilepsy; cancer; ss.
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Best Local Similarity
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30-JUN-2000;
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AAK43299/c

RESULT

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cervical cancer; ss.
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                                       Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human bone marrow. They can be used to measure gene expression in bone marrow samples, which may enable the improved diagnosis and treatment of cancers such as lymphoma, leukaemia and myeloma. The present sequence is one of the probes of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                            Human; bone marrow expressed exon; gene expression analysis; probe; microarray; cancer; leukaemia; lymphoma; myeloma; ss.
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                                                                                                                                                                  Human bone marrow expressed single exon probe SEQ ID NO: 17856
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                analyzing gene expression in human bone marrow
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411 TCATCCTCACCCTTGTCCTCA 391
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2000US-0207456.
2000US-0608408.
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21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
                                                                                 AAK43299 standard; DNA; 424
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ID AA124071 standard; DNA; 424
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                                                                                                                                                                                                                                        Homo sapiens
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30-JUN-2000;
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                411
                                                                                                             AAK43299;
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Probe #14004 for gene expression analysis in human cervical cell sample.

Matches

Probe; human; microarray; gene expression; cervical epithelial cell;

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(SENP). The present sequence is one such probe. The SENPs are derived from human Hela cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are therefore useful in grading and/or staging of diseases of the cervix, notably cervical cancer.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Probe #18053 used to measure gene expression in human placenta sample.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to human single exon nucleic acid
                                                                                                                                                                                                                                                                                                                                                                             Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human cervical epithelial cells -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 21; DB 22; Length 424; 100.0%; Pred. No. 16;
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genetic disorder; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 25; SEQ ID No 14004; 487pp; English.
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                                       04-FEB-2000, 2000US-0180312.
26-MAY-2000, 2000US-020'456.
30-UJN-2000; 2000US-0608408.
03-AUG-2000; 2000US-053236.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0234687.
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4atches 21; Conservative 0
30-JAN-2001; 2001WO-US00670
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Claim 25; SEQ ID No 9642; 322pp; English.
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30-JUN-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
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27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
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                                                                                                                                                                                                                                           The present invention relates to single exon nucleic acid probes (SENP). The present sequence is one such probe. The probes are useful for producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Probe; human; breast disease; breast cancer; development disorder; ss; inflammatory disease; proliferative breast disease; non-carcinoma tumour.
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                                                                                                                                                                                          analyzing gene expression in human placenta
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                                                                                                                                                                                                                   Claim 25; SEQ ID No 18053; 654pp; English.
                                                                                                                       Chen W, Rank DR;
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                                                                                           (MOLE-) MOLECULAR DYNAMICS INC.
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26-MAY-2000; 2000US-0207456.
30-JUN-2000; 2000US-0508408.
03-AUG-2000; 2000US-052366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-023459.
04-OCT-2000; 2000GB-0024263.
            30-JUN-2000; 2000US-0608408
03-AUG-2000; 2000US-0632366
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359
04-OCT-2000; 2000GB-0024263.
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                                                                                                                                                 WPI; 2001-488897/53.
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 26-MAY-2000;
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The present invention relates to novel single exon nucleic acid probes. The present sequence is one such probe. The probes are useful for measuring human gene expression in a human breast sample, where the probe breast. The probes are useful for a nucleic acid expressed in the human breast. The probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human breast, particularly those diseases with polygenic aetiology. The diseases of the breast cancer, disorders of development, inflammatory diseases of the breast, fibrocystic changes, proliferative breast disease and non-carcinoma tumours.
                                                                                                                                                                                                                         Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 21; DB 22; Length 424; 100.0%; Pred. No. 16; ative 0; Mismatches 0; Indels (
                                                                                                                                                                                                                                                                                                                    Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
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liver. (I) may be used for predicting, measuring and displaying gene expression in samples derived from human adult liver. The genes identified may be involved in genetic liver diseases such as cirrhosis, hyperlipoproteinaemia, hyperlipidaemia and hyperchlesterolaemia which human liver single exon nucleic acid probes of the invention. Note: The sequence information for this patent does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pot_sequences.
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Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;

Gaps . 0 Score 21; DB 23; Length 424; Pred. No. 16; 0; Indels 0; Mismatches 100.08; 100.0%; Conservative Local Similarity es 21; Conserv Query Match Matches

ABS17378 standard; DNA; 424 BP ABS17378; RESULT 11 ABS17378,

(first entry) 19-AUG-2002

Human genome-derived single exon probe ORF from lung SEQ ID No 17369.

Human, ds, single exon probe, asthma; lung cancer; COPD; ILD; chronic obstructive pulmonary disease; interstitial lung disease; familial idiopathic pulmonary fibrosis; neurofibromatosis; tuberous sclerosis; gaucher's disease; Niemann-Pick disease; Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis; pulmonary hastlocytosis; lymphangioleiomyomtosis; Karagener syndrome; pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia; primary ciliary dyskinesis; pulmonary hypertension; hyaline membrane disease; open reading frame; ORF. 

Homo sapiens.

WO200186003-A2.

15-NOV-2001

30-JAN-2001; 2001WO-US00665.

2000US-207456P. 2000US-0608408. 2000US-0632366. 2000US-234687P. 2000US-180312P 04-FEB-2000; 03-AUG-2000; 30-JUN-2000;

04-OCT-2000; 2000GB-0024263. 2000US-236359P 21-SEP-2000; 27-SEP-2000;

(MOLE-) MOLECULAR DYNAMICS INC

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2002-114183/15.

Spatially-addressable set of single exon nucleic acid probes, used to measure gene expression in human lung samples -

Claim 4; SEQ ID No 17369; 634pp; English.

The invention relates to a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung comprising single exon nucleic acid probes having one of 12614 nucleic acid sequences mentioned in the specification, or their complements or the 12387 open reading frames derived from the 12614

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probes. Also included are a microarray comprising the novel set of probes; the novel set of probes which hybridise at high stringency to a nucleic acid expressed in the human lung; measuring gene expression in a sample derived from human lung, comprising (a) contacting the array with mrNA, and (b) measuring the label detectably bound to each probe of the array; identifying exons in a eukaryotic genome, comprising (a) algorithmically predicting at least one exon from genomic sequences of the eukaryotic; and (b) detecting specific hybridisation of detectably labeled nucleic acids from eukaryote lung mRNA, to a single exon probe, having a fragment identical to the predicted exon, the probe is included in the above mentioned microarray; assigning exons to a single gene,
                                                                                                                                                                                                                                                                                                                                      comprising (a) identifying exons from genomic sequence by the method above and (b) measuring the expression of each of the exons in several tissues and/or cell types using hybridisation to a single exon microarrays having a probe with the exon, where a common pattern of expression of the exons in the tissues and/or cell types indicates that the exons should be assigned to a single gene; a peptide comprising one of 12011 sequences, mentioned in the specification, or encoded by the probes/open reading frames (ORF). The probes are used for gene expression analysis, and for identifying exons in a gene, particularly using human lung derived mRNA and for the study of lung diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      such as asthma, lung cancer, chronic obstructive pulmonary disease (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary fibrosis, neurofibromatosis, tuberous sclerosis, daucher, s disease, Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probe open reading frame of the invention.

Note: The sequence data for this patent did not form part
of the printed specification, but was obtained in electronic
format directly from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 21; DB 24; Length 424; 100.0%; Pred. No. 16;
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RESULT 12 ABX95006

ABX95006 standard; cDNA; 1041 BP.

ABX95006; 

cDNA encoding human tumour rejection antigen precursor, MAGE-C3. 05-JUN-2003 (first entry)

TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL; tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor; head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma; cutaneous melanoma; nonsmall cell lung cancer; gene; MAGE-C3; human; chromosome Xq27.1-Xq27.3.

Homo sapiens

Location/Qualifiers /\*tag= a /product= "MAGE-C3" ..1041

US2002176865-A1.

28-NOV-2002

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a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-G3, MAGE-B5, or MAGE-B6 polymucleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human cytotoxic T-lymphocyte (TUI)-containing sample. The nucleic acid is cytotoxic T-lymphocyte (TUI)-containing sample. The nucleic acid is useful as a diagnostic probe to determine the presence of abnormal cumour) cells such as seminoma, bladder transitional-cell carcinoma, head-and-neck squamous-cell carcinoma, breast carcinoma, sarcona, cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express MAGE-G1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPS or tumour rejection antigens (TRAS). The present sequence represents the CDNA of the gene encoding the human tumour rejection antigen precursor, NAGE-C3, which is located on chromosome Xq27.1-Xq27.3.
                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an isolated nucleic acid molecule which encodes
                                                                                                                                                                                                                                                                                                     Novel isolated nucleic acid encoding tumor rejection antigen precursor MAGE-03, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or MAGE-B6
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food supplement; medical imaging; diagnostic; genetic disorder; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA encoding novel human diagnostic protein #24158.
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                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Fig 5; 59pp; English.
                                                                         97US-0845528.
98US-0066281.
99US-0468433.
                   01-MAR-2002; 2002US-0085108.
                                                       2000US-0501104
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                                                                                                                                                                                                        Lucas S, Boon-Falleur T;
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                                                                                                                                                                      BOON/) BOON-FALLEUR T.
                                                                                                                                                                                                                                               2003-328468/31
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                                                   09-FEB-2000;
                                                                           25-APR-1997;
                                                                                           24-APR-1998;
17-DEC-1999;
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0; Gaps

0; Indels

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The invention relates to isolated polymucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PER) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The conjuncted tides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as (II). (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polymucleotide sequences have applications in classomestics, forenesics, gene mapping, identification of mutations capponsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and advanced and to produce other types of Atta and Products dependent on DNA and advanced the contract of the contract 
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Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                   New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID No 24158; 103pp; English.
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23-AUG-2000; 2000US-0649167
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Best Local Similarity 100.
                                                                                                                                                       WPI; 2001-639362/73
                                                                                                          Liu C,
                                                  (HYSE-) HYSEQ INC.
                                                                                                                                                                                P-PSDB; ABG24167
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			Description		BM547686 AGENCOURT	BO496083 EST05312	BZ298653 CG4508.rl	AZ246440 RPCI-23-9	
SUMMARIES			QI.	********************	BM547686	BQ496083	BZ298653	AZ246440	
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## ALIGNMENTS

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genomic clone CG4508, genomic survey sequence.
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JOURNAL
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KEYWORDS
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                                                     /mol_type="mRNA"
/db_txfef="texaon:9606"
/clone="IMAGE:572806"
/tissue_type="hippocampus"
/lab host="Ml108"
/clone lib="NIH_MGC_124"
/note="Organ: brain; Vector: pCMV-SPORT6; Site 1: EcoRV (destroyed); Site 2: Not1; RNA source male hippocampus, age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 0.9-4 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 012."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BQ496083 511 bp mRNA linear EST 31-OCT-2002 EST05312 Pb0001 Paracoccidioides brasiliensis cDNA, mRNA sequence. BQ496083
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1 (bases 1 to 511)
Goldman,G.H., Marques,E.R., Ribeiro,D.C.D., Bernardes,L.A., Puccia,R.R., Travassos,L.R., Nobrega,F.G., Nobrega,M.P., Savoldi-Barbosa,M., Semighini,C.P. and Goldman,M.H.
The Paracoccidioides brasiliensis BST genome project
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Contact: Gustavo Henrique Goldman
Laboratorry of Molecular Biology
Universidade de Sao Paulo - USP - FCFRP
Av do Cafe S/N, CEP: 14040-903, Ribeirao Preto - SP, Brazil
Email: ggoldman@usp.br.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
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                                      organism="Homo sapiens"
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/db_xref="taxon:121759"
/clone_lib="pb0001"
177 c 65 g 15
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Paracoccidioides brasiliensis
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20; Conservative
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BZ298653/c
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BQ496083
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FEATURES
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Mouse BAC End Sequences from Library RPCI-23
                                                                                                                                                                                                              Wong, S., Fares, M.A., Zimmermann, W., Butler, G. and Wolfe, K.H. Evidence from comparative genomics for a complete sexual cycle in the 'asexual' pathogenic yeast Candida glabrata Genome Biol. 4 (2), RIO (2003)
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Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 600)
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                                                                                                                                    Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: szhao@tigr.org
Clones are derived from the mouse BAC library RPCI-23. For BAC
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95 c 160 q 128 t
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1 (bases 1 to 592)
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                                                                                                                                                                                                                                                                                                                                                                            Contact: Wong S
Department of Genetics, Smurfit Institute
Trinity College Dublin
Dublin 2, Ireland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Candida glabrata"
/mol_type="genomic DNA"
/strafn="C8S 138"
/db_xref="taxon:5478"
/clone="CG4508"
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Contact: Shaying Zhao
Department of Eukaryotic Genomics
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BZ298653.1 GT:24442019
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 353 1 6082319
Fax: 353 1 6798558
Email: swong@tcd.ie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Class: plasmid ends
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Best Local Similarity 95.25
Matches 20, Conservative
                                                                                                       Candida glabrata
                                                                                Candida glabrata
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Contact: Shaying Zhao
Contact: Shaying Zhao
Contact: Shaying Zhao
Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Genomics
The Institute for Genomic Genomics
The Institute for Genomic Bacard
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0200
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/note="Organ: Kidney/Brain; Vector: pBACe3.6; Site_1:
BCORI; Site_2: BCORI; Female C57BL/61 mouse kidney and/or
brain genomic DNA was isolated and partially digested
brain genomic DNA was isolated and partially digested
with a combination of EcoRI and EcoRI Methylase. Size
selected DNA was cloned into the pBACe3.6 vector at the
ECORI sites. The ligation products were transformed into
DH10B electrocompetent cells (BRL Life Technologies). "
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Zhao, S., Nierman, W., Feldblyum, T., Malek, J., Shatsman, S., Akinret, B., Levins, M., Mcgann, S., Tsegaye, G., Geer, K., Krol, M., de Jong, P. and Fraser, C.M.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 736)
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or from Resea ch Genetics (info@resgen.com). BAC end page:
http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
Plate: 91 row: H column: 10
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                                                                                                                                                                                                                                                                        organism="Mus musculus"
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/organism="Mus musculus"
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                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10090"
/clone="RPCI-23-91H10"
                                                                                                                                                                                               Socation/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /lab host="DH10B"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /sex="Female"
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                                                                                                             Seq primer: T7
Class: BAC ends.
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Other GSSs:
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AZ247894/c
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/mol type="genomic DNA"

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/clone_lib="Bif694954"
/clone_lib="Bif694954"
Site_2: Not[: The poly (A) + RNA was dephosphorylated with Site_2: Not[: The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tabacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including ECORI site by treatment of T4 RNA linker including ECORI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The cDNA vector was adjusted to have about 60ht. The cDNA vector was circularized with E. coli DNA ligase after digestion of ECORI which site is also included in vector. An RNA strand
                                                                                CB118019 186 bp mRNA linear EST 28-JAN-2003 K-EST0164201 BIT694954-9-A02 5',
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   converted to a DNA strand by Okayama-Berg method. The
                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                         92.4%; Score 19.4; DB 28; Length 736; 95.2%; Pred. No. 2.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Korea Research Institute of Bioscience & Biotechnology 52 Boom-dong Yuseong-gu, Daejeon 305-333, South Korea Flat: +82-42-860-44109
                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                       165 t
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21C Frontier Korean EST Project 2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: yongsung@mail.kribb.re.kr
Plate: 9 row: A column: 02
High quality sequence stop: 186.
Location/Qualifiers
                   /db_xref="taxon:10090"
/clone="RPCI-23-91L10"
/sex="Female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="mRNA"
/db xref="taxon:9606"
                                                                                                                                                                                                                                                                                                  197 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /lab_host="Top10F'"
/strain="CS7BL/6J"
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Genome Research Center
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Best Local Similarity
Matches 20; Conserva
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CB118019
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Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Musmanlai Eutheria; Rodentia; Sciurognathi; Muridae, Murinae; Mus.
I (bases 1 to 237)
Carninci, P., Shibata, K., Ozawa, Y., Konno, H., Itoh, M., Aizawa, K., Akahira, S., Akiyama, J., Pukudai, S., Pukunishi, Y., Funayama, T., Hara, A., Hayatsu, M., Hori, F., Ishikawa, T., Itoh, M., Izawa, M., Kawai, J., Skiuchi, N., Kojima, Y., Matsuyama, T., Niltsuma, H., Oda, H., Owa, C., Sato, K., Shibata, Y., Shiganto, Y., Shiraki, T., Sogabe, Y., Sugahara, Watanabe, S., Yagame, M., Yamamura, T., Yokota, T., Yoshino, M.,
Muramatsu, M., Okazaki, Y. and Hayashizaki, Y., Yoshino, M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: genome-resertc.riken.go.jp
Thermostabilization and thermostabilemostabile enzymes by
Trehalose and its application for the synthesis of full length cDNA
(Proc. Natl. Acad. Sci. U.S.A. 95(2):520-524 (1998))
Transcriptional sequencing: A method for DNA sequencing using RNA
polymerase (Proc. Natl. Acad. Sci. U.S.A. 95(7):345-3460 (1998))
Please visit our web site (http://genome.rtc.riken.go.jp) for
                      competent cells E. coli ToplOF' by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."
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obtained cDNA vectors were used for transformation of
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/clone lib="Mus musculus 18-day embryo C57BL/6J"
50 c 63 g 67 t
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                                                                                                                                                                                                                1; Indels
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                                                                                                                                                                                                                0; Mismatches
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/clone="1110057J14"
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Location/Qualifiers
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/strain="C57BL/6J"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
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Genome Science Laboratory
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tel: 81-298-36-9145
Fax: 81-298-36-9098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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1 (Dases 1 to 273)

3 Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult (C.J., Lee,N.H., Kirkness, B.F.), Weinstock, K.G., Gocayne, J.D., White (C.J., Lee,N.H., Kirkness, B.F.), Weinstock, K.G., Gocayne, J.D., White (J.), Sutton, G., Blake, J.A., Brandon, R.C., Meranda, C., Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald, L.M., Fitzhugh, W.M., Fitchman, J.L., Geoghagen, N.S., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblom, B. Hinkle, P.S., Jr., Kelley, J. W., Kelley, J. C., Liu, L.-I., Marmaros, S.M., Merrick, J.M., Kelley, J. C., Liu, L.-I., Marmaros, S.M., Merrick, J. M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, B.J., Dimke, D., Feng, D.-Fr, Fischer, C., Hastings, G.A., He, W.M., Rusch, C., Hungjun, J., Li, H., Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M., Dillion, P.J., Fannon, W.R., Rosen, C.M. and
                                                       EST 18-APR-1997
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                                                                                                                                                                                                             Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (http://www.tigr.org/tdb/hgi/hgi.html)
Seq primer: Ml3 Reverse.
Location/Qualifiers
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/dev_stage="adult"
/dev_stage="adult"
/note="logan: testis; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI"
?2 c 70 g 49 t 5 others
                                                    AA298913 273 bp mRNA linear EST 18-APR-EST114541 Testis tumor Homo sapiens CDNA 5' end, mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
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95.0%; Pred. No. 3.9e+03;
ive 0; Mismatches 1; Indels
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/mol_type="mRNA"
/db_xref="ATCC (inhost):191897"
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/sex="male"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Kerlavage, AR
Bioinformatics
                                                                                                                               AA298913.1 GI:1951276
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SOURCE

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

I (bases 1 to 280)

Konno, H., Aizawa, K., Akahira, S., Akiyama, J., Arakawa, T., Carninci
P., Endo, T., Fukuda, S., Fukunishi, Y., Hara, A., Hayatsu, N.,

Hirozana, T., Hori, F., Ishi, Y., Ishikawa, J., Ishikawa, T., Itoh, M.,

Izawa, M., Kadota, K., Kagawa, I., Kai, C., Kawai, J., Kikuchi, N.,

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Matsuyama, T., Miki, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y.,

Ono, T., Owa, C., Saito, H., Sato, K., Shibata, X., Shibata, Y., Shipata, Y., Shibata, Y., Shinaqawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa, A., Takahashi, F., Tominaga, N., Toya,

Yano, R., Yasunishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M., Muramatsu, M. and Hayashizaki, Y., Voshida, K., Yoshiki, A., Yoshino, H., Ruki, Muse ESTS (Konno, H.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: genome-resegac.riken.go.jp,
UKL:http://genome.gsc.riken.go.jp,
UKL:http://genome.gsc.riken.go.jp,
Carninci,P. Nishiyama.Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length CDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P., and Hayashizaki,Y.
High-efficiency full-length CDNA cloning. Methods Enzymol. 303,
                                  BB032507 RIKEN full-length enriched, adult male thymus Mus musculus cDNA clone 5830471116 3' similar to U78167 Rattus norvegicus CAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Clone lib="RIKEN full-length enriched, adult male thymus" /note="Site 1: Sal1; Site_2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Ist strand cDNA was
       EST 23-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-2 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9222
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           linear
       mRNA
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/mol_type="mRNA"
/strain="C57BL/6J"
280 bp
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/clone="5830471116"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Yoshihide Hayashizaki
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/lab_host="DH10B"
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TITLE COMMENT FEATURES

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                                                                  3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: Sall; 3' end:
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Q902e10.x1 Soares placenta 8to9weeks 2NbHP8to9W Homo sapiens cDNA clone IMAGE:1758378 3', mRNA sequence.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This Clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1072 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                                                                                                                                         87.6%; Score 18.4; DB 10; Length 280; 95.0%; Pred. No. 3.9e+03; ive 0; Mismatches 1; Indels 0;
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/db_xref="taxon:9606"
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High quality sequence stop: 2
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Best Local Similarity 95.0°
Matches 19; Conservative
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transcriptase and subsequently enriched for full-length by

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Estations (Notata) Craniata; Vertebrata; Buteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Bukaryota; Buteria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (Dases 1 to 294)

RS Konno, H., Aizawa, K., Akahira, S., Akiyama, J., Arakawa, T., Carninci, P., Endo, T., Fukuda, S., Fukunishi, Y., Hara, A., Hayatsu, N., Hirozane, T., Hori, F., Ishii, Y., Ishikawa, T., Itoh, M., Izawa, M., Kadota, K., Kagawa, H., Kaj, C., Kawai, J., Khuchi, N., Kiyoswa, H., Kojima, Y., Kondo, S., Koya, S., Kurihara, C., Kusakabe, M., Matsuyama, T., Miki, R., Mizuno, Y., Nakamara, M., Oda, L., Oda, C., Sain, Mizuno, Y., Sakai, C., Sato, K., Shibata, K., Shibata, Y., Shigemoto, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Sugahara, Y., Y., Shigemoto, Y., Watahiki, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M., Muramatsu, M. and Hayashizaki, Y. Yoshida, K., Yoshiki, A., Yoshino, H. Khen, Mouse Ests (Konno, H., et al.)
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URL:http://genome.gac.riken.go.jp,
URL:http://genome.gac.riken.go.jp,
URL:http://genome.gac.riken.go.jp,
Carninci,P., Nishiyama.Y., Mestover,A., Itch,M., Nagaoka,S., Sasaki
'N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Thermostabilization and thermoactivation of thermolabile enzymes by
trehalose and its application for the synthesis of full length
CDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itch,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki
'Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
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                                                                       BB488898 RIKEN full-length enriched, 13 days embryo stomach Musmusculus cDNA clone D530004H21 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone_lib="RIKEN full-length enriched, 13 days embryo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Please visit our web site (http://genome.rtc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prepared by using trehalose thermo-activated reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tissue type="stomach"
/dev stage="13 days embryo"
/lab_host="DH10B"
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/db_xref="taxon:10090"
/clone="D530004H21"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished
Contact: Yoshihide Hayashizaki
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1. .294
                                                                                                                                                                                                                                                                                                        Mus musculus (house mouse)
                                                                                                                                                                                                                         BB488898.1 GI:9406507
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                                                                                                          DEFINITION
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RESULT 11
BB488898
                                                                                                                                                                                     ACCESSION
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KEYWORDS
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COMMENT

FEATURES

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/doing lib="normalized infant brain cDNA"
/note="Organ: brain; Vector: lafmid BA; Site_1: HindIII;
Site_2: Not1; sex=Female; dev stage=3 months old;
isolate=muscular atrophy patient; tissue type=total brain;
isolate=muscular atrophy patient; tissue type=total brain;
coned 5′ -> 3′ into the HindIII -> NotI sites of the
lafmid BA vector. Clone library from B.Soares, Psychiatry
Bento Soares, P.N.A.S in press"

89 c 79 g 69 t 3 others
                                                                                                                                                                                                                                                                                                                                                                                                EST 20-FEB-1995
was cleaved with BamKI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I." 64 c 41 g 108 t
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Mammalla, Eutheria, Primates, Catarthini, Hominidae, Homo.
1 (Sases 1 to 308)
Auffray, C., Behar, G., Bois, F., Bouchier, C., da Silva, C., Devignes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .M.D., Duprat,S., Houlgatte,R., Jumeau,M.N., Lamy,B., Lorenzo,F., Michell,H., Mariage-Samson,R., Pietu,G., Pouliot,Y., Sebastiani-Kabaktchis,C. and Teesier,A.
IMAGE: molecular integration of the analysis of the human genome
                                                                                                                                                                                                                                                                                                                                                                                              F07446 308 bp mRNA linear EST 20-FBB-
HSC26A021 normalized infant brain cDNA Homo sapiens cDNA clone
                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genethon Centre de recherche sur le Genome Humain
1,rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
                                                                                                                                                                               .;
                                                                                                                            Score 18.4; DB 10; Length 294;
Pred. No. 4e+03;
0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Acad. Sci. III, Sci. Vie 318 (2), 263-272 (1995)
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                                                                                                                                                                               0; Mismatches
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/dev_stage="3 months old"
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Location/Qualifiers
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/db_xref="taxon:9606"
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Single read.
                                                        41 g
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                                                                                                                          87.6%;
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95.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tel: 33169472800
Fax: 33160778698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
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Best Local Similarity
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Matches

DEFINITION

RESULT 13 AI025315 LOCUS

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ACCESSION VERSION KEYWORDS ORGANISM

SOURCE

AUTHORS

TITLE

JOURNAL

COMMENT

REFERENCE

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/lab host="Toplor"
/clone lib="S128NU216"
/clone lib="S128NU216"
/clone lib="S128NU216"
/note="Cogan: Stoned; Vector: pCNS; Site_1: EcoRI;
Site_2: Not!; Fine poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tabacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including EcoR is to by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was
                                                                                                             Homo sapiens
Bukaryota, Matazoa; Chordata, Craniata; Vertebrata; Buteleostomi,
Bukamalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

Mammalia, Butheria; Primates; Catarrhini; Hominidae; Homo.

Kim, N. S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,

Kim, Y.S., Cheong, J.B., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and

Kim, Y.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             circularized with B. coli DNA ligase after digestion of BCORI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The coheained cDNA vectors were used for transformation of competent cells E. coli ToploF' by electroporation method. Full-length alibraries constructed by this method are full-length enriched cDNA library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Korea Research Institute of Bioscience & Biotechnology 52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea Tel: +82-42-860-4470 Fax: +82-42-860-4409 Email: yongsung@mail.kribb.re.kr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87.6%; Score 18.4; DB 12; Length 339; 95.0%; Pred. No. 4.1e+03; ive 0; Mismatches 1; Indels 0;
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                                                                                                                                                                                                                                                                                                                                                                            21C Frontier Korean EST Project 2001
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/db_xref="taxon:9606"
/clone="S12SNU216-71-E10"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /tissue_type="Lymph node"
/cell_type="Epithelial"
/cell_line="SNU-216"
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Location/Qualifiers
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   BM843625.1 GI:19200034
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Kim YS
Genome Research Center
                                                                              Homo sapiens (human)
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Best Local Similarity 95.0°
Matches 19; Conservative
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/(lab host="DH10B"
/(clone lib="Scares testis NHT"
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/(clone lib="Scares testis NHT"
/(clone lib="Scares testi
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DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.B. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image.html
Insert Length: 383 Std Brror: 0.00
Seq primer: -40ml3 #wd. ET from Amersham.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
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                                                                                                                                                                                                                                                                                                                             AI025315 324 bp mRNA linear EST 27-AUG-1996 ov74e08.xl Soares testis NHT Homo sapiens cDNA clone IMAGE:1643078 3' similar to contains element MER22 repetitive element ;, mRNA
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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NCI-CGAP http://www.ncbi.nlm.nih.gov/nciogap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Unpur Gene Index
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AI025315.1 GI:3240928
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Matches 19; Conservative
19; Conservative
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FEATURES

BASE COUNT ORIGIN

DEFINITION

ACCESSION

RESULT 14 BM843625

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Gaps

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EST 28-JAN-2003

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21C Frontier Korean EST Project 2001

M. Dubullshed

Contact: Kim YS

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
7el: +82-42-860-4470
Fax: +82-42-860-4470
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M.F., Lennon, G. and Soares, M.B. (1996), Genome Research
culture."
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COMMENT
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Search completed: February 19, 2004, 23:14:32 Job time : 1575 secs 77 TCAFCTCAFCTTGTCCTC 96 g

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Gaps

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Query Match 87.6%; Score 18.4; DB 14; Length 379; Best Local Similarity 95.0%; Pred. No. 4.2e+03; Matches 19; Conservative 0; Mismatches 1; Indels 0;

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                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 16,
Sequence 1, A
Sequence 1, A
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Sequence 479,
Sequence 1, 1
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Sequence 8
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-09-702-327-3
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US-09-573-986-16
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21
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Maximum Match 100%
Listing first 45 summaries
                                  OM nucleic - nucleic search, using sw model
                                                                                                          1 TCATCCTCACCCTTGTCCTCA 21
                                                                                                                            IDENTITY NUC Gapop 10.0 , Gapext 1.0
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                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 200000000
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Match Length DB
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                                                                                                                                                       Sequence 66,
Sequence 382,
Sequence 382,
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APPLICANT: C. Frank Bennett
APPLICANT: Lex M. Cowsert
TITLE OF INVENTION: ANTISENSE MODULATION OF CALRETICULIN EXPRESSION
FILE REPERENCE: RTS-0697
CURRENT APPLICATION NUMBER: US/09/702,327
CURRENT FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 89
                                                                   Sequence 1,
                                                                                                                                                                                                                             Seguence 3,
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                                                            US-08-466-743-1

PCT-US95-12414-1

US-09-620-1312D-69

US-09-220-132-66

US-09-352-66A-382

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US-09-433-699-31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1292 ichichchrcringichich 1272
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 TCATCCTCACCCTTGTCCTCA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/09702327; Patent No. 6426220; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: WEI, YING-FEI
APPLICANT: YU, GUO-LIANG
APPLICANT: RUBENZ, STENDER
APPLICANT: RUBEN, STEVEN
TITLE OP INVENTION: TUMOR
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
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Best Local Similarity 90.5:
Matches 19; Conservative
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ns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-006-353A-16/c
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US-09-702-327-3/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: CDS
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LENGTH: 1958
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  TYPE: DNA
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CORRESPONDENCE ADDRESS
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81.0%; Score 17; DB 3; Length 325;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               81.0%; Score 17; DB 4; Length 325; 100.0%; Pred. No. 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Wei, Ying-Fei
APPLICANT: Wei, Ying-Fei
APPLICANT: Gentz. Reiner
APPLICANT: Wi, Jian
TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
FILE REPERENCE: 1488.1280004
CURRENT APPLICATION NUMBER: US/09/573,986
CURRENT FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: WEI, YING-FEI
APPLICANT: YU, GUO-LIANG
APPLICANT: GENTZ, REINER
APPLICANT: RUBEN STEVEN
TITLE OP INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
NUMBER OF SEQUENCES: 26
                          OPERATING SYSTEM: PC-DOS/MS-DOS
SOFWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/006,353A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Preq. w.
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; Patent No. 6261801
; GENERAL INFORMATION:
APPLICANT: WEI, YING-FEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 16, Application US/09573986; Patent No. 6455040; GENERAL INFORMATION:
                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: BROOKES, ANDERS A
BEGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: FF341
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 325 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
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IBM PC compatible
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                                                                                                                                FILING DATE:
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
COMPUTER: IBM PC OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
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US-09-006-353A-1/C
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US-09-573-986-16/c
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81.0%; Score 17; DB 3; Length 1392; 100.0%; Pred. No. 68; 0; Mismatches 0; Indels
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                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/006,353A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AFPLICANT: Gentz, Reiner;
APPLICANT: Ruben, Steven;
TITLE OF INVENTION: Tumor Necrosis Factor;
FILE REFERENCE: 1488.1280004;
CURRENT APPLICATION NUMBER: US/09/573,986;
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patent
ADDRESSEE: HUMAN GENOME SCIENCES, INC.
STREET: 9410 KEY WEST AVENUE
CITY: ROCKVILLE
                                                                                                                                                                                                                                                     FILING DATE:
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BROCKES, ANDERS A
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF341
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8512
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1392 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 1, Application US/09573986; Patent No. 6455040; GENERAL INFORMATION:
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LOCATION: 183..260
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LOCATION: 261..959
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STRANDEDNESS: single
                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 183..959
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; NAME/KEY: CDS
; LOCATION: (183)..(959)
US-09-573-986-1
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LENGTH: 1392
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                                                                                  COUNTRY:
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                                               0;
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Match 81.0%; Score 17; DB 4; Length 1392; Local Similarity 100.0%; Pred. No. 68; es 17; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:

APPLICANT: Kleyn, Patrick, and Moore, Karen
TITLE OF INVENTION: RP Compositions and Therapeutic and
TITLE OF INVENTION: Diagnostic Uses Therefor
TITLE OF SQUARCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/WS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/955,918C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 29-AUG-1996
ATTORNEY/ACBNT INFORMATION:
NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: MNI-007CPDV2CPA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEPHONE: (617)227-5941
                                                                                                                                                                                                                                                                                                                                                                                                                                      E: LAHIVE & COCKFIELD, LLP
28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-697-766A-8/c
; Sequence 8, Application US/08697766A
; Patent No. 639970
; GENERAL INFORMATION:
; APPLICANT: Gimeno, Carlos; Kleyn,
; TITLE OF INVENTION: RP Composition
; TITLE OF INVENTION: Diagnostic of INVENTION:
                                                                                                                                                                                                                              US-08-955-918C-8/c
; Sequence 8, Application US/08955918C
; Patent No. 6268130
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                                                                                        1 TCATCCTCACCCTTGTC 17
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INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
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nucleic acid
EDNESS: single
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Matches 18, Conservative
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CITY: Boston
STATE: Massach
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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  Query Match
Best Local S:
Matches 17,
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Kleyn, Patrick, and Moore, Karen
TITLE OF INVENTION: Diagnostic Uses Therapeutic and
TITLE OF INVENTION: Diagnostic Uses Therefor
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                         SOFTWARE:
SOFTWARE:
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
FILING DATE: 29-40G-1996
PRIOR PAPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/955,918C
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                   CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/697,766
                                                                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                     APPLING DATE:
FILING DATE:
ATTORNEY, AGENT INFORMATION:
NAME: Silveri, Jean M.
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-(
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
108-08-955-918C-6/c
; Sequence 6, Application US/08955918C
; Parent No. 6268130
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INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1512 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best_Local Similarity 90.03
Matches 18; Conservative
NUMBER OF SECUENCES: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                     Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Massachusetts
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                                                              STATE: Mason
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CITY: Boston
STATE: Massach
                                                                                                                        USA
                                                                                                                                          02109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
LOCATION:
US-08-697-766A-8
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                                                                                                                      COUNTRY:
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Query Match
Best Local Similarity 90.00,
                                                            Best Local Similarity 90.0
Matches 18; Conservative
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EDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          , NAME/KEY: CDS
; LOCATION: 139..1653
US-08-631-200-1
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                                                                                                                                                                                                              RESULT 10
US-08-631-200-1/c
      US-08-697-766A-6
                                          Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Gimeno, Carlos; Kleyn, Patrick; and Moore, Karen J. TITLE OF INVENTION: RP Compositions and Therapeutic and TITLE OF INVENTION: Diagnostic Uses Therefor NUMBER OF SEQUENCES: 13 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                             ·
0
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: BEADENING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 29-ANG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
APPLICATION NUMBER:
                                  NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REPERENCE/DOCKET NUMBER: MNI-007CPDV2CPA
TELECOMMUNICATION INPORMATION:
TELEPAX: (617)227-5941
TELEPAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS:
LENGTH: 1801 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: LAHIVE & COCKFIELD, LLP STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: $11veri, Jean M.
REGISTRATION NUMBER: 39,030
REFRENCE/DOCKET NUMBER: MNI-007
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6, Application US/08697766A; Patent No. 6399760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                749 TCATCCTCATCCTCGTCCTC 730
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INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS:
LENGTH: 1801 base pairs
FILING DATE: 29-AUG-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 90.08
Matches 18; Conservative
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STREET: 20 C.
CITY: Boston
The: Massachusetts
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STRANDEDNESS: single
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139..1653
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139..1653
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No. 6399760
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
US-08-697-766A-6/c
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LOCATION:
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; LOCATION:
US-08-955-918C-6
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Sequence 1, Application US/08631200
Patent No. 5646040
GENERAL INFORMATION:
APPLICANT: KLEYN, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 59
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80.0%; Score 16.8; DB 4; Length 1801; 90.0%; Pred. No. 86; 2; Indels 0
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Pred. No. 86;
0; Mismatches 2; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: New York
CODMTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/631,200
FILING DATE: 12-APR-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E: Pennie & Edmonds
1155 Avenue of the Americas
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US-08-829-553-1/c
; Sequence 1, Application US/08829553
; Patent No. 5817762
; GENERAL INFORMATION:
; APPLICANT: Kleyn, Patrick W.
; APPLICANT: Moore, Karen J.
                                                                                              1 TCATCCTCACCCTTGTCCTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TCATCCTCACCCTTGTCCTC 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: COULZI, LUBURA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 78:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (212) 790-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80.0%;
90.0%;
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TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
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TOPOLOGY: 11:
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; LOCATION:
US-08-922-267A-1
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APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 82
CORRESPONDENCE ADDRESS:
  COMPOSITIONS FOR THE TREATMENT AND DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.0%; Score 16.8; DB 1; Length 1804; 90.0%; Pred. No. 86; tive 0; Mismatches 2; Indels 0;
                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NATH.
APPLICATION NUMBER: US/08/829,553
FILING DATE: 28-MAR-1997
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                           ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 28-MAR-1997
CLASSIPETCATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/631,200
FILING DATE: 12-APR-1996
ATTOCNEY, AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTATION NUMBER: 30,742
REFERENCE, DOCKET NUMBER: 7853-057
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-922-267A-1/c
; Sequence 1, Application US/08922267A
; Patent No. 5861239
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TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : 1804 base pairs
nucleic acid
EDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 90.0
Matches 18; Conservative
TITLE OF INVENTION: CONTITLE OF INVENTION: DIMER OF SEQUENCES: 5: CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; LOCATION: 139..1653
US-08-829-553-1
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U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
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GENERAL INFORMATION:
APPLICANT: -Kleyn, Patrick W.
APPLICANT: -Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
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APPLICATION NUMBER: US/08/936,707A FILING DATE: 24-SEP-1997 CLASSIFICATION: 514 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
80.0%; Score 16.8; D:
Best Local Similarity '90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches
                                         FILING DATE: 2-SEP-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/829,553
FILING DATE: 28-MAR-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 08/631,200
FILING DATE: 12-APR-1996
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
                  APPLICATION NUMBER: US/08/922,267A
FILING DATE: 2-SEP-1997
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
                                                                                                                                                                                                                                                                                                                                                                          7853-085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: New York
COUNTRY: U.S.A.
ZIP. 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-936-707A-1/c
; Sequence 1, Application US/08936707A
; Patent No. 5871931
                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: OCNIZAT, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853--
TELECOMUNICATION INFORMATION:
TELEPHONE: (212) 790-9904
TELEPHONE: (212) 869-9741/8864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     749 rchrchrchrchrchchchc 730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (212) 869-9741/88
TELEX: 66141 PENNIE
INFORMATION FOR SEG ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
CURRENT APPLICATION DATA:
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(212) 869-9741/8864

TELEFAX:

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Sequence 1, Application US/08936706A
Patent No. 5876919
GENERAL INFORMATION:
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                               y Match 80.0%; Score 16.8; DB 2; Length 1804; Local Similarity 90.0%; Pred. No. 86; 2; Indels 0; Mismatches 2; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80.0%; Score 16.8; DB 2; Length 1804; 90.0%; Pred. No. 86; 2; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,706A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7853-099
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ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LBUIDA 30,742
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
                                                                                                                                                                                                                                                                                                                                                                                                                  749 rcarccrcarccrcarctrc 730
                                                                                                                                                                                                                                                                                                                                                                      1 TCATCCTCACCCTTGTCCTC 20
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
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TYPE: nucleic acid
STRANDEDNESS: single
                                                               LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: DNA
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US-08-936-706A-1
                                                                                                                                                                                               NAME/KEY:
                                                                                                                                                                                                                    LOCATION:
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TELEX: 6
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Matches
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Gaps · 0

Conservative

Local Similarity ses 18; Conserv

Matches

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Sequence 1, Application US/09248203
Patent No. 6043346
BAPPLICANT: Kleyn, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin 1.30
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/248,203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80.0%; Score 16.8; D
90.0%; Pred. No. 86;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Search completed: February 19, 2004, 23:16:13
Job time: 48 secs
                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/936,707
FILING DATE: 24-SEP-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7853-100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PC-DOS/MS-DOS
                                  749 TCATCTCATCTCGTCTC 730
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1 TCATCCTCACCCTTGTCCTC 20
                                                                                                                                                                                                                                                                                                                                                                                    STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 785:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 90.0
Matches 18; Conservative
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STRANDEDNESS: single
                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 6(
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: CDS
LOCATION: 139..1653
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
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CLASSIFICATION:
                                                                                                RESULT 15
US-09-248-203-1/c
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February 19, 2004, 22:22:13 ; Search time 194 Seconds (without alignments) 398.744 Million cell updates/sec
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(cgn2_6/ptodata1/pubpna/US06_PUB_RP DEB.seq:*
(cgn2_6/ptodata1/pubpna/US06_PUBCOMB.seq:*
(cgn2_6/ptodata1/pubpna/US06_PUBCOMB.seq:*
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(cgn2_6/ptodata1/pubpna/DS08_NEW_PUB.seq:*
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(cgn2_6/ptodata1/pubpna/US08_PUBCOMB.seq:*
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2449703 seqs, 1841816367 residues
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Published Applications NA:*: /cgn2 6/ptodata/1/pubpna
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TCATCCTCACCCTTGTCCTCA 21
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Maximum DB seq length: 200000000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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ď	21436, A	100997,	21, App]	4056, 7	1761, A	388, App	99044,	99044,	1604, Ap	15180,	77261,	313997,	77261, A	313997,
Description	Seguence 21436, A Seguence 100997,	Sequence	Sequence	Sequence 4056,	Sequence	Seguence	Seguence	Sequence	Seguence	Sequence	Sequence 77261,	Sequence	Sequence	Sequence
SUMMARIES	JS-09-864-761-21436 US-10-027-632-100997	JS-10-027-632-100997	US-10-085-108-21	US-09-918-995-4056	US-10-106-698-1761	US-09-764-864-388	US-10-027-632-99044	S-10-027-632-99044	S-10-104-047-1604	US-09-918-995-15180	US-10-027-632-77261	US-10-027-632-313997	8-10-027-632-77261	JS-10-027-632-313997
ID	Su U	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ	Þ
DB	9 13	14	14	11	15	10	13	14	17	7	13	13	14	14
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ult No.	77	ᠬ	4	ហ	9	7	σ0	σ	10	11	12	13	14	15
Result No.	טט	U			υ		υ	υ	υ	υ	υ	υ	U	O

572 Seguence 35572,	572 Sequence 35	٦	H	7	Sequence 35		Sequence 13		342 Sequence 1542, Ap	6	Sequence 16, Appl		1 Sequence		5 Sequence 16916	5 Sequence	Sequence 16480	16480	4807	4808 Sequence	Sequence 1, Appli	Sequence 1, Appli	Sequence	9 Sequence 2870	92 Sequence 14292,	10238,	Sequence 1141	9 Sequence 57249,	Segmence 8033.
US-10-027-632-35	US-10-027-632-35	us-	US-10-405-588-1	US-10		US-10				US-09-864-7		US-10-186-		US-10-027-632-				US-10-027-632	US-10-027-632-16		US-09-826-212-1	US-10-186-643-1		US-09-864-761-2870	US-10-029-386-1	US-09-878-574-1	-60-SD	US-10-242-535A-5724	-60-SD
13	14	11	13	12	11	13	13	10	10	σ	σ	15	13	14	13	14	13	13	14	14	σ	15	12	σ	13	10	10	12	10
657	657	1251	1251	1899	1920	1924	1940	1958	110096	432	325	325	635	635	829	829	837	837	837	837	1392	1392	2203	160	160	242	296	309	394
	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	82.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	80.0	80.0	80.0	80.0	80.0	80.0
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.4	17	17	17	17	17	17	17	17	17	17	17	17	17	16.8	16.8	16.8	16.8	16.8	16.8
16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
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## ALIGNMENTS

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RESULT. I
US-09-664-761.21436/c

| Sequence 21436, Application US/09864761
| Fatent No. USZOOGO464763A1
| Sequence 21436, Application US/09864761
| Sequence 21446, Application US/09864761
| Setting No. USZOOGO464763A1
| SEX. SAPLICANT: Penn. Sharron G. APPLICANT: Penn. Sharron G. APPLICANT: Chen, Rensheng TITLE OF INVENTION: GREEN EXPRESSION ANALYSIS BY MICROARRAY TITLE OF INVENTION: GREEN EXPRESSION ANALYSIS BY MICROARRAY CHREEN EXPLICANT: Chen, Mensheng TITLE OF INVENTION WINDER: US 60/180, 312
| FILE REFERENCE: Aeonica-X-1 CURRENT PELLICANTON WINDER: US 60/180, 312
| PRIOR PELLING DATE: 2000-02-04 PRIOR PELLING DATE: 2000-05-26
| PRIOR PELLING DATE: 2000-05-26
| PRIOR PELLING DATE: 2000-05-26
| PRIOR PELLING DATE: 2000-05-26
| PRIOR PELLING DATE: 2000-05-26
| PRIOR PELLING DATE: 2001-05-36
| PRIOR PELLING DATE: 2001-05-36
| PRIOR PELLING DATE: 2001-01-30
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| PRIOR PELLING DATE: 2001-01-30
| PRIOR PELLING NUMBER: PET/US01/00665
| PRIOR PELLING NUMBER: PET/US01/00665
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RESULT 3
US-10-027-632-100997/c
                       ; ORGANISM: Human
US-10-027-632-100997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-027-632-100997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
US-10-085-108-21
                                                                                                                                                                                    Matches
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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 5.6

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 5.6

OTHER INFORMATION: EXPRESSED IN BELA, SIGNAL = 7.1

OTHER INFORMATION: EXPRESSED IN HEAR, SIGNAL = 7.1

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.4

OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 5.9

OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 5.7

OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.7

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

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OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3

OTHER INFORMATION: EXPRESSED IN HELLOO, SIGNAL = 6.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 21; DB 9; Length 424; 100.0%; Pred. No. 7.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
             PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: ECT/USOL/OGGE1
PRIOR APPLICATION NUMBER: PCT/USOL/OGGE1
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2000-09-21
PRIOR FILING DATE: 2000-09-21
PRIOR FILING DATE: 2000-09-21
PRIOR PLING DATE: 2000-09-30
PRIOR PLING DATE: 2000-06-30
PRIOR PLING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers: 1.11
SEQ ID NO 21436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-04-30
PRIOR PELING DATE: 2000-04-8
PRIOR PELING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR PELING DATE: 2000-03-29
PRIOR PELING DATE: 2000-03-24
PRIOR FILING DATE: 1900-02-24
PRIOR FILING DATE: 1909-11-23
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR FILING DATE: 1999-11-23
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PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 921
PRIOR APPLICATION NUMBER: PCI/US01/00662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 100997, Application US/10027632 Publication No. US20030204075A9 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                411 rchrchchccchrchchch 391
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Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-027-632-100997/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
OTHER INFORMATION:
OTHER INFORMATION:
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TUMOR REJECTION ANTIGEN PRECURSORS OF MEMBERS OF THE MAGE-C MAGE-B FAMILIES AND USES THEREOF
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                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.12
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR PRICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
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Publication No. US20020176865A1
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES CODING
                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 21; DB 14; Length 921; Best Local Similarity 100.0%; Pred. No. 6.8; Matches 21; Conservative 0; Mismatches 0; Indels
100.0%; Score 21; DB 13; Length 921; 100.0%; Pred. No. 6.8;
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                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-02-24
PRIOR FILING DATE: 2000-02-24
PRIOR FILING DATE: 1999-11-23
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/166,358
PRIOR FILING DATE: 1999-09-28
PRIOR FILING DATE: 1999-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                     ; Sequence 100997, Application US/10027632; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    692 TCATCCTCACCTTGTCCTCA 672
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                                                                                                                     1 TCATCCTCACCCTTGTCCTCA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: New York City STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
                                                          21; Conservative
Query Match
Best Local Similarity
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Sequence 1761, Application US/10106698
Publication No. US20030109690A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
IIILE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87.6%; Score 18.4; DB 15; Length 772; 95.0%; Pred. No. 91;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 1792 SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Rosen et al:
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR PLING DATE: 1999-10-29
PRIOR FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: PTZ23
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: misc_feature
LOCATION: (766). (766)
UPHER INPORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (772). (772)

; LOCATION: (772) ...(772)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-106-698-1761

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OTHER INFORMATION: n equals a,t,g, or
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Patent No. US20020132753A1
GENERAL INFORMATION:
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OTHER INFORMATION: n equals a,t,g,
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                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Ver. 3.0
SEQ ID NO 1761
LENGTH: 772
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Best Local Similarity 95.04
Matches 19, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Homo sapiens
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NAME/KEY: SITE
US-10-106-698-1761/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (621)
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LENGTH: 852
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ch 100.0%; Score 21; DB 14; Length 1041; 1 Similarity 100.0%; Pred. No. 6.7; 21; Conservative 0; Mismatches 0; Indels 0
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Sequence 4056, Application US/09918995

Publication No. US20030073623A1

GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.

TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED

TITLE OF INVENTION: PROM VARIOUS CDNA LIBRARIES

FILE REFERENCE: 2011-756

CURRENT FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: US/09/235,076

PRIOR FILING DATE: 1999-01-20
  MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Mary Anne Schofield
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 5611.1 JEL/MAS
                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/085,108
FILING DATE: 01-Mar-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/501,104
FILING DATE: 09-Feb-2000
APPLICATION NUMBER: 09/468,433
                                                                                                                                                                                                                                                                                            FILING DATE: December 17, 1999
APPLICATION NUMBER: 09/066,281
FILING DATE: April 24, 1998
APPLICATION NUMBER: 08/845,528
FILING DATE: April 25, 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4056
LENGTH: 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3100
INFORMATION FOR SEQ ID NO: 21:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         175 rcarccrcaccirrarcrca 195
                    COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 1041 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 95.0
nes 19; Conservative
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US-09-918-995-4056
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Best Local Similarity
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Matches

o;

Score 18.4; DB 10; Length 852; Pred. No. 90;

87.6%;

Query Match Best Local Similarity

; OTHER INFORMATION: n equals a,t,g, or c US-09-764-864-388

NAME/KEY: SITE

LOCATION:

89 rcarctrcarctrarctrc 108

RESULT 6

TYPE: DNA

Query Match

Matches

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Gaps

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87.6%; Score 18.4; DB 14; Length 1840; 95.0%; Pred. No. 87; tive 0; Mismatches 1; Indels 0;
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/104,047
CURRENT FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER:
PRIOR FILING DATE:
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PATENTIN VEY: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1604, Application US/10104047
Publication No. US20030236392A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                        905 cagccrcacccrrcrca 886
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OTHER INFORMATION: n = A,T,C or G
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                                                                                                                                                                                                                                                                                Best Local Similarity 95.0 Matches 19; Conservative
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ORGANISM: Homo sapiens
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US-09-918-995-15180/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 10
US-10-104-047-1604/c
                                                                                                                                                     ORGANISM: Human
                                                                                                                                                                                      US-10-027-632-99044
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                                                           SEQ ID NO 99044
LENGTH: 1840
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                                                                                                                              TYPE: DNA
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US-10-027-632-99044/c
US-10-027-632-99044, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFRENCE: 108877.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
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0; Mismatches
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PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR PLING DATE: 2000-07-12
PRIOR PLING DATE: 2000-04-20
PRIOR FILING DATE: 2000-04-20
PRIOR PLING DATE: 2000-03-29
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PRIOR PLING DATE: 1900-02-24
PRIOR PLING DATE: 1999-11-23
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PRIOR PLING DATE: 1999-10-28
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PRIOR FILING DATE: 2000-04-20
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-02-24
PRIOR FILING DATE: 2000-02-24
PRIOR FILING DATE: 1999-11-23
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
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PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
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APPLICATION NUMBER: US 60/146,002
FILING DATE: 1999-08-09
                                                                                                                                                                                                                                                                            Sequence 99044, Application US/10027632 Publication No. US20030204075A9
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95.08;
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Best Local Similarity 95.01
Matches 19; Conservative
19; Conservative
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US-10-027-632-99044/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gequence 1212.00, Application US/09918955
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OFTAINED
; TITLE OF INVENTION: ROWER US/09/918,995
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 2001-07-30
; NUMBER OF SEQ ID NOS: 3805-4
; SOFTWARE: FastSEQ for Windows Version 3.0
APPLICANT: HELIX RESEARCH INSTITUTE
TITLE OF INVENTION: No. US20030236392Alel full length cDNA
FILE REFERENCE: H1-A0105
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PRIOR FILING DATE: 1999-08-09

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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.128
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
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 2; Indels
0; Mismatches
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PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR FILING DATE: 2000-07-12
PRIOR FILING DATE: 2000-04-20
PRIOR PILING DATE: 2000-04-20
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-02-24
PRIOR FILING DATE: 2000-02-24
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Publication No. US20030204075A9
GENERAL INFORMATION:
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FILING DATE: 1999-09-28
APPLICATION NUMBER: US 60/146,002
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                            1 TCATCCTCACCCTTGTCCTCA 21
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ORGANISM: Human
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LENGTH: 635
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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide.
TITLE OF INVENTION: Obly 27.129
CURRENT PELING NORTH: 108827.129
CURRENT PLING DATE: 2002-04-30
FRIOR PILING DATE: 2000-07-12
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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 109827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR PELICATION NUMBER: US 60/218,006
PRIOR PELICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
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NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 313997
LENGTH: 635
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 77261, Application US/10027632 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                           262 TCATCCTCACCCTTGGCTTCA 242
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Matches 19; Conservative
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Thes 19; Conserve
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US-10-027-632-77261/c
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                                                                                                                                           ORGANISM: Human
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                                                                                                                      TYPE: DNA
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Search completed: February 20, 2004, 00:50:04 Job time : 196 secs

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February 19, 2004, 23:14:43; Search time 171 Seconds (without alignments) 331.510 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
| SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2011b.DAT:*
| SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2011b.DAT:*
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                                                                                                                                                                                                                                                                                                                                                  1588498
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                              2552756 seqs, 1349719017 residues
                                                                                                                                                                       US-10-085-108-21_COPY_175_195
21
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Maximum Match 100%
Listing first 45 summaries
                                                                 OM nucleic - nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 21
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Perfect score:
                                                                                                                                                                                                                                                      Scoring table:
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Result Query No. Score Match Length DB ID  1 21 100.0 21 25 ABX95021 2 15.8 75.2 20 22 AAX92581 2 3 14.4 68.6 20 22 AAX62887 2 4 14.4 68.6 20 22 AAX16887 2 5 14.2 67.6 20 24 AAX194940 2 6 14.6 63.8 20 21 AAA79891 8 13.4 63.8 20 21 AAA79999			Description	Human MAGE-C3 exc	Human nucleolin p	Nucleotide sequenc	Heat shock proteir	Antisense primer,	HERG gene exon 11,	Hepatitis B virus	Hepatitis B virus	
Score Match Length D 21 100.0 21 15.8 75.2 20 14.4 68.6 20 14.2 67.6 20 13.4 66.7 20		SUMMARIES	ID	ABX95021	AAC92581	AA166887	AAD19679	AAD24940	AAA07645	AAA79801	AAA79799	
Score 21 21 15.8 14.4 14.4 14.2 13.4			DB	25	22	22	22	24	21	21	21	
Score 21 21 15.8 14.4 14.4 14.2 13.4	•		Length	21	20	20	20	20	20	19	20	
		œ	Query Match	100.0	75.2	68.6	9.89	9.79	66.7	63.8	63.8	
Result No.			Score	21	15.8	14.4	14.4	14.2	14	13.4	13.4	
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9 13.4 63.8 20 21 AAA79800 13.4 63.8 20 21 AAA79800 13.2 62.9 20 25 AAR756056 13.12 62.9 20 25 AAR790153 2 14 12.8 61.0 17 24 ABV90154 17 12.8 61.0 20 21 AAA79747 18 12.8 61.0 20 21 AAA79747 19 12.8 61.0 20 22 AAC91362 19 12.8 61.0 20 22 AAC91362 22 12.6 60.0 20 20 AAX90375 24 12.6 60.0 20 20 AAX90375 25 12.6 60.0 20 20 AAX90375 26 12.6 60.0 20 22 AAC92590 27 12.6 60.0 20 22 AAC92590 28 12.6 60.0 20 22 AAC92590 29 12.6 60.0 20 22 AAC92590 20 12.6 60.0 20 22 AAC92590 20 12.6 60.0 20 22 AAC92590 21 2.6 60.0 20 22 AAC92590 22 12.6 60.0 20 22 AAC92590 23 12.6 60.0 20 22 AAC92590 24 12.6 60.0 20 22 AAC92590 25 12.6 60.0 20 22 AAC92590 26 29 12.6 60.0 20 22 AAC92590 27 12.6 60.0 20 22 AAC92590 28 12.6 60.0 20 22 AAC92590 29 12.4 59.0 20 22 AAC91653 29 12.4 59.0 20 22 AAC91653 29 12.4 59.0 20 22 AAC91653 29 12.4 59.0 20 22 AAC91653 29 12.4 59.0 20 22 AAC91653 20 12.4 59.0 20 22 AAC91653 21 12.4 59.0 20 22 AAC91653 21 12.4 59.0 20 22 AAC91653 21 12.4 59.0 20 22 AAC91653 21 12.2 58.1 17 24 ABN08086 22 44 12.2 58.1 17 24 ABN08086	Hepatitis B virus Human biallelic ma PCR primer used to	Aspergillus fumiga Human POSHL1 scann	B E	Hepatitis B virus	Human Y-box bindin Human calreticulin	Human biallelic po	Primer for human h	bial	p53	Human p53 gene rev	The reference to the reverse to the reservence t	Human nucleolin pn	Antisense oligonuc	Probe for DNA enco	Exon 6 of an ENaC	Human NOV-associat	Human POSHL1 scann	Human POSHL1 scann	Human Her-3 mRNA i	Human trkC recepto	Hepatitis B virus	Human trkC recepto	Human angiotensino	Human angiotensino	EGFR mRNA inhibiti	lobacter	Exon 8 of an ENaC	GDMLP-1	Human GDMLP-1 17-m	Human GDMLP-1 17-m	Human GDMLP-1 17-m
13.4       63.8         10       13.4       63.8       20         12       13.2       62.9       20         15       12.8       61.0       17         15       12.8       61.0       20         16       12.8       61.0       20         17       12.8       61.0       20         18       12.8       61.0       20         19       12.8       61.0       20         24       12.8       61.0       20         25       12.6       60.0       20         26       12.6       60.0       20         27       12.6       60.0       20         28       12.6       60.0       20         29       12.6       60.0       20         31       12.4       59.0       17         34       12.4       59.0       19         37       12.4       59.0       19         38       12.4       59.0       19         39       12.4       59.0       19         40       12.4       59.0       20         41       12.2       58.1 <t< td=""><td>AAA79800 AAZ76077 AAF55056</td><td>ABT19438 ABV90153</td><td>ABV90154 AAA79747</td><td>AAA79748</td><td>AAC81362 AAD39529</td><td>AAX09234</td><td>AAV35465</td><td>AAZ75280</td><td>AAX90361</td><td>AAX90375</td><td>A4430509</td><td>AAC92590 ABAB1915</td><td>ABZ77254</td><td>AAN82113</td><td>AAV57673</td><td>ABX97284</td><td>ABV90151</td><td>ABV90152</td><td>AAH47580</td><td>AAT00705</td><td>AAA79802</td><td>AAZ88855</td><td>AAC91653</td><td>AAC91657</td><td>ABZ23815</td><td>AAT31713</td><td>AAV57677</td><td>ABN08085</td><td>ABN08086</td><td>ABN08406</td><td>ABN08407</td></t<>	AAA79800 AAZ76077 AAF55056	ABT19438 ABV90153	ABV90154 AAA79747	AAA79748	AAC81362 AAD39529	AAX09234	AAV35465	AAZ75280	AAX90361	AAX90375	A4430509	AAC92590 ABAB1915	ABZ77254	AAN82113	AAV57673	ABX97284	ABV90151	ABV90152	AAH47580	AAT00705	AAA79802	AAZ88855	AAC91653	AAC91657	ABZ23815	AAT31713	AAV57677	ABN08085	ABN08086	ABN08406	ABN08407
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001141111111111111111111111111111111111			61.0			•									0.09	0.09	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	58.1	58.1	58.1	58.1
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## ALIGNMENTS

ABX95021 standard; DNA; 21 BP.

RESULT 1 4BX95021

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TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL; tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor; head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma; cutaneous melanoma; nonsmall cell lung cancer; RT-PCR; primer; MAGE-C3;
                                                                   Human MAGE-C3 expression pattern anlaysis RT-PCR sense primer.
                                                                                                                                                    human; reverse transcription.
                                                                                                                                                                                                                                                                                        09-FEB-2000; 2000US-0501104.
25-APR-1997; 97US-0845528.
24-APR-1998; 99US-0066281.
17-DEC-1999; 99US-0468433.
                                                                                                                                                                                                                                                              01-MAR-2002; 2002US-0085108
                                        05-JUN-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                          (LUCA/) LUCAS S.
(BOON/) BOON-FALLEUR T.
                                                                                                                                                                                                       US2002176865-A1.
                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                    28-NOV-2002.
              ABX95021;
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Sequence 21 BP; 3 A; 10 C; 1 G; 7 T; 0 other;
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                               Boon-Falleur T;
                                                                                WPI; 2003-328468/31.
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                               Lucas S,
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The invention relates to an isolated nucleic acid molecule which encodes a tumour rejection antigen precursor (TRAP) having an amino acid sequence of a TRAP encoded by a fully defined MAGE-C3, MAGE-B5, or MAGE-B6 polymucleotide sequence. Also disclosed is a method which is useful for determining presence of cytolytic T-cells specific for complexes of human leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a cytotoxic T-lymphocyte (CTL)-containing sample. The nucleic acid is useful as a diagnostic probe to determine the presence of abnormal (tumour) cells such as seminoma, breast carcinoma, cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express cutaneous melanoma or nonsmall cell lung cancer (NSCLC) which express disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPS. The present sequence represents the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human MAGE-C3 expression pattern anlaysis reverse transcription (RT)-PCR
Novel isolated nucleic acid encoding tumor rejection antigen precursor MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
                                                                                                                                                                                                                                                                                                                                       Example 12; Page 13; 59pp; English.
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Score 21; DB 25; Length 21; Pred. No. 14; 0; 0; Mismatches 1 TCATCCTCACCCTTGTCCTCA 21 1 TCATCCTCACCTTGTCCTCA 21 100.0%; 21; Conservative Query Match Best Local Similarity

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Gaps

. 0

Indels

AAC92581 standard; DNA; 20 BP. (first entry)

Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:31.

Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis; ribosome transport; cytokinesis; nucleogenesis; cell proliferation; cell growth; transcriptional repression; replication; esignal transduction; chromatin decondensation; Ag-NOR family; nucleolin antibody; systemic connective tissue disease; SLE; systemic lupus erythematosus; celeroderma-like chronic graft versus host disease; scleroderma-like chronic graft formation; cancer; inflammation; immune disorder; phosphorothioate; antisense oligonucleotide; ss.

99US-0433699

(ISIS-) ISIS PHARM INC.

Cowsert LM; Bennett CF,

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treatment of conditions associated with nucleolin expression, such as
                                                                                                                                                                                                                                     targetted to the human nucleolin gene, which inhibit its expression. The antisense oligomucleotides were designed to target different regions of the human nucleolin mRNA, and were analysed for their effect on nucleolin mRNA levels by quantitative real-time PCR. Nucleolin (also known as P92 or C23) is the most abundant nucleolar phosphoprotein in actively growing cells. Nucleolin primarily participates in ribosome biogenesis and transport of ribosomal components, being able to transiently bind to pre-ribosomes in the nucleolus via a ribonucleoprotein consensus sequence. However, it has also been shown to
                                                                                                                                                                                                                                                                                                                                                                                                                                                            be involved in cytokinesis, nucleogenesis, cell proliferation and growth, transcriptional repression, replication, signal transduction, and chromatin decondensation. Nucleolin is a member of the Ag-NOR (active ribosomal gene located in the nucleolar organiser region) family of proteins which are markers of active ribosomal genes, and whose expression is associated with the prediction of tumour growth rate. The
                                                                Novel antisense compound targeted to human nucleolin which specifically hybridizes with and inhibits the expression of human nucleolin, useful for modulating the expression of nucleolin in cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 presence of antibodies against nucleolin are associated with systemic connective tissue diseases such as systemic lupus erythematosus (SLE) and scleroderma-like chronic graft versus host disease. The oligonucleotides of the invention are useful for diagnosis, prevention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                   Sequences AAC92560-C92639 represent antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tumour formation, immune disorders and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 15.8; DB 22;
Pred. No. 1.9e+03;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 2 A; 9 C; 1 G; 8 T; 0 other;
                                                                                                                                                                  Example 15; Column 41-42; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TCATCCTCACCCTTGTCCT 19
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Best Local Similarity 89.5%
                    WPI; 2001-079848/09.
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AA166887 standard; DNA; 20 BP AA166887; AA166887/c RESULT 3

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Nucleotide sequence of primer seq Id No. 27.

07-JAN-2002 (first entry)

Nucleic acid amplification; hybridization assay; interaction assay; expression cloning; PCR primer; ss.

Synthetic.

WO200171027-A2

27-SEP-2001.

23-MAR-2001; 2001WO-EP03311.

24-MAR-2000; 2000EP-0106450.

(MICR-) MICROMET AG. 

Zohlnhoefer D, Klein C;

WPI; 2001-611514/70.

A method for the amplification of mRNA from a sample, e.g. for the

preparation of in vitro surrogates for pathologically modified cells or Examples; Page 170; 170pp; English

The invention provides a novel method for the amplification of mRNA from a sample. The method comprises (1) generating cDNA from polyadenylated RNA employing at least 1 primer hybridizing to the polyadenylated RNA and comprising a 5' poly(G) or a 5' poly(G) flank; (2) (either): (a) comprising a 5' poly(C) or a 5' poly(G) flank; (2) (either): (a) and/or surplus dNTPS; (ii) 3' tailing of the generated cDNA with a poly (G) tail when in step (1) primer(s) comprising a 5' poly(C) flank was/were employed; or (b) (optionally) 3' tailing of the generated cDNA with a poly (C) tail when in step (1) primer(s) comprising a 5' poly(G) flank was/were employed; or (b) (optionally) 3' tailing of the generated cDNA with a poly(G) tail when in step (1) primer(s) comprising a 5' poly(G) flank was/were employed or a poly(C) tail when in step (1) primer(s) comprising a 5' poly(G) flank was/were employed or a poly(C) tail when in step (1) primer(s) comprising a 5' poly(G) flank was/were employed or a poly(C) tail when in step (1) primer(s) comprising a 5' poly(G) flank was/were employed or a poly(C) tail when in step (1) primer(s) comprising or the tails generated in step (10 primer(s) and complete of the tails generated in step (10 primer(s) and comprising to the tails generated in step (2ai) or (2b). The amplified composition and preparation of mRNA transcripts (which may then be used in hybridization consasys (comprising hybridization to oligonucleotide arrays, cDNA arrays and/or PNA arrays) and/or interaction assays (comprising hybridization to oligonucleotide arrays, and/or apparation and/or expression cloning. Sequences complete the invention.

Subtractive hybridization cloning and/or expression cloning. Sequences complete the provention. ##X#X

Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 other;

1 TCATCCTCACCCTTGT 16 17 rearcercageerrer Best\_Local Similarity 93.8 Matches 15; Conservative à g

Query Match Matches 0

AAD19679 standard; DNA; 20 BP. AAD19679/c

AAD19679;

18-DEC-2001 (first entry)

Heat shock protein 70B PCR primer #1 related to the invention.

Inhibitor; interferon-gamma; IFN-gamma signalling pathway; therapy; restenosis; oconary artery; carotid artery; femoralis artery; accta-coronary vein bypass; arterial bypass; venous bypass; ballon angioplasty; stent implantation; vasotropic; PCR primer; ss.

Unidentified.

WO200170953-A2.

27-SEP-2001.

23-MAR-2001; 2001WO-EP03312 24-MAR-2000; 2000EP-0106468

MICR-) MICROMET AG.

WPI; 2001-616404/71.

Use of an inhibitor of the interferon-gamma signaling pathway for preparation of a pharmaceutical composition useful in the treatment or

Neumann F;

Klein C,

Zohlnhoefer D, Baeuerle P,

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The present invention relates to the use of an inhibitor of the interferon-gamma signalling pathway for the preparation of a pharmaceutical composition for the treatment or prevention of a pharmaceutical composition for the treatment or prevention of a pharmaceutical composition useful in treating or preventing restenosis which include restenosis of coronary arteries, carotid arteries, and/or accordary vein bypass, arteries, and/or venous bypass; and restenotic modification is done before, during and/or after ballon of restenotic modification is done before, during and/or after ballon modification is in-stent restenosis; and for treating and preventing restenosis in a subject preferably human. The present sequence is a expression in human restenotic tissue used in the exemplification
                                              Example 5; Page 55; 151pp; English.
prevention of restenosis -
                                                                                                                                                                                                                                                                                                                                                                                                                          the invention.
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68.6%; Score 14.4; DB 22; Length 20; 93.8%; Pred. No. 7.1e+03; Live 0; Mismatches 1; Indels ( Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 other; Local Similarity 93.8 Query Match Matches

; 0

Gaps

. 0

1 TCATCCTCACCCTTGT 16 N 17 rearcercascerer

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AAD24940 standard; DNA; 20 BP AAD24940; RESULT 5 AAD24940 

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Gaps

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68.6%; Score 14.4; DB 22; Length 20; 93.8%; Pred. No. 7.1e+03; tive 0; Mismatches 1; Indels (

(first entry) 12-MAR-2002

Antisense primer, to analyse human P28 alpha gene expression modulation.

Human, growth inhibitory gene, retinoid, retinoic acid response element, RARE site, therapy, promyelocytic leukaemia, cancer chemoprevention; cytostatic, proteasome activator PA28 subunit alpha, FA28alpha gene; PCR primer; ss

Homo sapiens.

WO200192578-A2.

25-MAY-2001; 2001WO-US17161.

26-MAY-2000; 2000US-207535P.

(UNII ) UNIV ILLINOIS FOUND

Chang B; Dokmanovic M, Roninson IB,

WPI; 2002-075474/10.

Expression construct encoding cellular genes, under control of a promoter regulated by retinoids and cells comprising the construct for identifying compounds that induce expression of the genes useful in treating cancer

Example 1; Page 19; 64pp; English.

invention also relates to recombinant expression constructs that express a reporter gene under the transcriptional control of a promoter for a gene which is expressed by retinoid induction. The promoter does not The patent discloses growth inhibitory genes induced by retinoids. The

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further relates to reagents and methods for identifying compounds other than retinoids that modulate the expression of cellular genes. These compounds are useful for treating cancers such as promyelocytic leukaemia and cancer chemoprevention. The present DNA sequence is a PCR primer which is used for analysing human proteasome activator PA28 subunit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      They can also be used to screen for drugs for treating or preventing LQT syndrome. The HERG nucleic acids can also be used for gene therapy and HERG peptides can be used for peptide therapy. Sequences AAA07624-653 represent intron/exon junction sequences of the HERG gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a HERG protein having a mutation compared to wild-type HERG, and is useful for developing products for the diagnosis, prevention and treatment of long QT (LQT) syndrome. The products and methods can be used for the diagnosis of subjects with LQT syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated mutant HERG nucleic acids, useful for developing products for the diagnosis, prevention and treatment of long QT syndrome
                                                                                                                                                                                                                     Gaps
 contain a retinoic acid response elements (RARE) site. The invention
                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HERG; mutation; long QT syndrome; LQT syndrome; gene therapy;
                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                                     Indels
                                                                                                                                                                               Score 14.2; DB 24;
Pred. No. 8.6e+03;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HERG gene exon 11/intron 11 junction sequence.
                                                                                                                                                 Sequence 20 BP; 1 A; 10 C; 0 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 5 A; 3 C; 11 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 8; Page 71; 163pp; English.
                                                                                                                                                                                                                                                 1 TCAICCICACCCIIGICCI 19
                                                                                                                                                                                                                                                                            rchichcacacanara 20
                                                                                                                                                                                                                                                                                                                                                                 AAA07645 standard; DNA; 20 BP
                                                                                                                                                                                67.6%;
84.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                              Local Similarity 84.2
nes 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Splawski I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-195319/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200006772-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06~JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                   19-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Keating MT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                 AAA07645;
                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                  AAA07645/c
                                                                                                                                                                                                                 Matches
8×30000000×8
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density gene chip, specifically for making high-density micro-array of oligonucleotide probes. An oligonucleotide probe selecting process to seek preferentially length variable and coverage variable probes is provided to ensure identical cross melting temperature of probes is provided to ensure identical cross melting temperature of probes to the maximum limit, and this can make the cross control of gene chip relatively simple and raise the reliability of the gene chip detecting results. The process proposes a specific probe selection method for detecting target sequence directly, detecting mutation in both specific and non-specific sites and a probe overall arrangement scheme. AAA99738 to AAA80201 represent oligonucleotide probe sequences which are used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention describes a method which comprises making a high-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                         Hepatitis B virus, HBV; Hepatitis A virus, HAV, probe, detection, mutation, high-density gene chip, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                          Hepatitis B virus related oligonucleotide probe #64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis B virus related oligonucleotide probe #62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 13.4; DB 21;
Pred. No. 1.8e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 5 A; 8 C; 2 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                          High-density gene chip making process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mutation; high-density gene chip; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               examples from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Fig 15; 19pp; Chinese.
                                AAA79801 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        63.8%;
                                                                                                                                                                                                                                                                                                 99CN-0114460.
                                                                                                                                                                                                                                                                                                                                 99CN-0114460.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA79799 standard; DNA; 20
                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                            Lu Z, Wang Y;
                                                                                                                                                                                                                                                                                                                                                              (UYDO-) UNIV DONGNAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-443233/39.
                                                                                                                                                                                                       Hepatitis B virus.
                                                                                                                                                                                                                                                                                                 24-SEP-1999;
                                                                                                                                                                                                                                                                                                                                 24-SEP-1999;
                                                                                             20-NOV-2000
                                                                                                                                                                                                                                      CN1252452-A.
                                                                                                                                                                                                                                                                      10-MAY-2000.
                                                              AAA79801;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA79799;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                          Sun X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 8
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Hepatitis B virus.

0

Gaps

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Score 14; DB 21; Length 20; Pred. No. 1e+04; 0; Mismatches 0; Indels

100.0%; Pred. ....

14; Conservative

Matches

Local Similarity

Query Match

CCTCACCCTTGTCC 18

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cerchecerrence 3

g

66.7%;

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The present invention describes a method which comprises making a high-density gene chip, specifically for making high-density micro-array of oligonucleotide probes. An oligonucleotide probe selecting process to seek preferentially length variable and coverage variable probes is provided to ensure identical cross melting temperature of probes is maximum limit, and this can make the cross control of gene chip relatively simple and raise the reliability of the gene chip detecting results. The process proposes a specific probe selection method for detecting target sequence directly, detecting mutation in both specific and non-specific sites and a probe overall arrangement scheme. AAA79738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 5 A; 8 C; 2 G; 5 T; 0 other;
                                                                                                                                                                                                                                        High-density gene chip making process -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     examples from the present invention.
                                                                                                                                                                                                                                                                        Example 1; Fig 15; 19pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA79800 standard; DNA; 20 BP
                                                                             99CN-0114460
                                                                                                             99CN-0114460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 CATCCTCACCCTTGT 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATCCTCACCCTAGT 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 93.3
                                                                                                                                                                             Lu Z, Wang Y;
                                                                                                                                           (UYDO-) UNIV DONGNAN.
                                                                                                                                                                                                           WPI; 2000-443233/39
                                                                             24-SEP-1999;
                                                                                                             24-SEP-1999;
                CN1252452-A
                                               10-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                             Sun X,
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0,
                                        Gaps
                                     0
63.8%; Score 13.4; DB 21; Length 20; 93.3%; Pred. No. 1.8e+04; cive 0; Mismatches 1; Indels (
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(first entry) 20-NOV-2000 AAA79800; 

Hepatitis B virus related oligonucleotide probe #63.

Hepatitis B virus, HBV; Hepatitis A virus, HAV; probe, detection, mutation, high-density gene chip; ss.

Hepatitis B virus.

CN1252452-A.

10-MAY-2000

99CN-0114460. 24-SEP-1999; 99CN-0114460. 24-SEP-1999;

Sun X, Lu Z, Wang Y; (UYDO-) UNIV DONGNAN.

WPI; 2000-443233/39.

High-density gene chip making process

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                                                 The present invention describes a method which comprises making a high-density gene chip, specifically for making high-density micro-array of oligonuclocide probes. An oligonucleotide probe selecting process to seek preferentially length variable and coverage variable probes is provided to ensure identical cross melting temperature of probes to the maximum limit, and this can make the cross control of gene chip relatively simple and raise the reliability of the gene chip results. The process proposes a specific probe selection method for and non-specific sites and a probe overall arrangement scheme. AAA79738 to AAA80201 represent oligonucleotide probe sequences which are used in examples from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human biallelic marker downstream amplification primer SEQ ID NO:10433.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ65654 to AAZ69578 represent human biallelic markers from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also
                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation;
                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                     / Match 63.8%; Score 13.4; DB 21; Local Similarity 93.3%; Pred. No. 1.8e+04; nes 14; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 5 A; 8 C; 2 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 9; Page 2455; 2745pp; English.
                   Example 1; Fig 15; 19pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ76077 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-0082614.
98US-0109732.
                                                                                                                                                                                                                                                                                                                                                                                                                  2 CATCCTCACCCTTGT 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATCCTCACCCTAGT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-IB00822.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   W09954500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-1999;
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23-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
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preparation. The method may also produce an attenuated virus for use as a vaccine for preventing or ameliorating mumps infection.

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Gaps

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Producing a recombinant mumps virus (MUV), useful as a mumps vaccine, by transfecting or transforming a host cell with a transcription vector comprising a MUV genome or antigenome, and an expression vector encoding trans-acting proteins -
be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primers AAF55055-56 were used to amplify a fragment of the Mumps virus genome. The amplified fragment was used in the course of the invention. The specification describes a method for producing a recombinant mumps virus. The method comprises transfecting or transforming, in a resoue composition media, a host cell with a transcription vector comprising a genome or antigenome of mumps virus, and an expression vector encoding trans-acting proteins (NP, P and L)
                                                                         treatment. N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Encapsidation protein, transcription protein, replication protein, cell targeting; gene therapy; attenuated virus; vaccine; mumps;
                                                                                                                                                                                                  Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer used to amplify a fragment of the mumps genome.
                                                                                                                                                                                                Query Match
63.84; Score 13.4; DB 21; Length
Best Local Similarity 93.34; Pred No. 18e+04;
Matches 14; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clarke DK, Johnson EJ, Sidhu MS, Udem SA;
                                                                                                                                                                Sequence 21 BP; 3 A; 8 C; 2 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 37; 133pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AMHP.) AMERICAN HOME PROD CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-AUG-1999; 99US-0146664.
23-JUN-2000; 2000US-0213654.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-AUG-2000; 2000WO-US21192.
                                                                                                                                                                                                                                                                      6 CICACCTIGICCTC 20
                                                                                                                                                                                                                                                                                               CTCACCCTTGTTCTC 21
                                                                                                                                                                                                                                                                                                                                                                                                   AAF55056 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-MAY-2001 (first entry)
                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-123320/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200109309-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mumps virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-FEB-2001
                                                                                                                                                                                                                                    14;
                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF55056;
                                                                                                                                                                                                                                                                                                                                                             RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                AAF55056
                                                                                                                                                                                                                                                                                                                                                                                                       ~ GGGGGGGGGGGGX8XHHHHXHXHXHXHXHXBXSX8X8X8X8XXXXHH
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The invention relates to novel purified or isolated mucleic acids of essential genes of Aspergillus fumigatus. The isolated nucleic acids of the invention are used to treat or prevent infectious by a pathogenic organism such as A. fumigatus, to treat a non-infectious disease in a subject (e.g. cancer), to prevent or contain contemination of an object by A. fumigatus, or to prevent or inhibit formation on a surface of a bid-in comprising A. fumigatus. The polynucleotides are useful for expressing recombinant protein for characterisation, screening or therapeutic use, as markers for host tissues in which the pathogenic organisms invade or reside, for comparing with the DNA sequence of A. Chuniqatus to identify duplicated genes or paralogues having the same or similar biochemical activity and/or function, for comparing with DNA sequences of other related or distant pathogenic organisms to identify potential or virulence genes, for selecting and making oligomers for attachment to a nucleic acid array for examination of expression patterns, for raising anti-protein antibodies or celeit another immune response, and for identifying polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding
                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                          essential gene; Aspergillus fumigatus; infection; biofilm; antibody; immune response; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New purified or isolated nucleic acids of essential genes of Aspergillus fumigatus, useful for treating or preventing infections by A. fumigatus, or for treating a non-infectious disease in a subject
                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lemieux SM;
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0
                                                                                    Length 20;
                                                                                                                       Indels
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                                                                                  Score 13.2; DB 22;
Pred. No. 2.2e+04;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zamudio C, Eroshkin AM,
                                                  Sequence 20 BP; 1 A; 11 C; 2 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                            Aspergillus fumigatus essential gene #1796.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page -; 175pp; English.
                                                                                                                                                           2 CATCCTCACCCTTGTCCT 19
                                                                                                                                                                                             19
                                                                                                                                                                                                                                                                                   ABT19438 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27.APR-2001; 2001US-287066P.
05-JUN-2001; 2001US-295890P.
09-JUL-2001; 2001US-303899P.
31-AUG-2001; 2001US-316362P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-APR-2002; 2002WO-US13142.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-APR-2001; 2001US-285697P.
                                                                                        62.9%;
                                                                                                        83.3%;
                                                                                                                                                                                       2 ccrccrcAccccrGrCrr
                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                         15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ELIT-) ELITRA PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                Fungicide, cytostatic; cancer; contamination;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Jiang B, Tishkoff D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aspergillus fumigatus.
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                                                                                                        Local Similarity
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                                                                                         Query Match
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necessary for encapsidation, transcription and replication. The method is carried out under conditions sufficient to permit the co-expression of the vectors and the production of the recombinant virus. The recombinant virus has an ability to induce long-lasting immunity with a single dose and a relatively low level of genome recombination. The recombinantly produced Mumps viruses are useful in antibody generation, diagnostic, prophylactic and therapeutic applications, cell targeting, gene therapy, mutant virus preparation and immunogenic composition